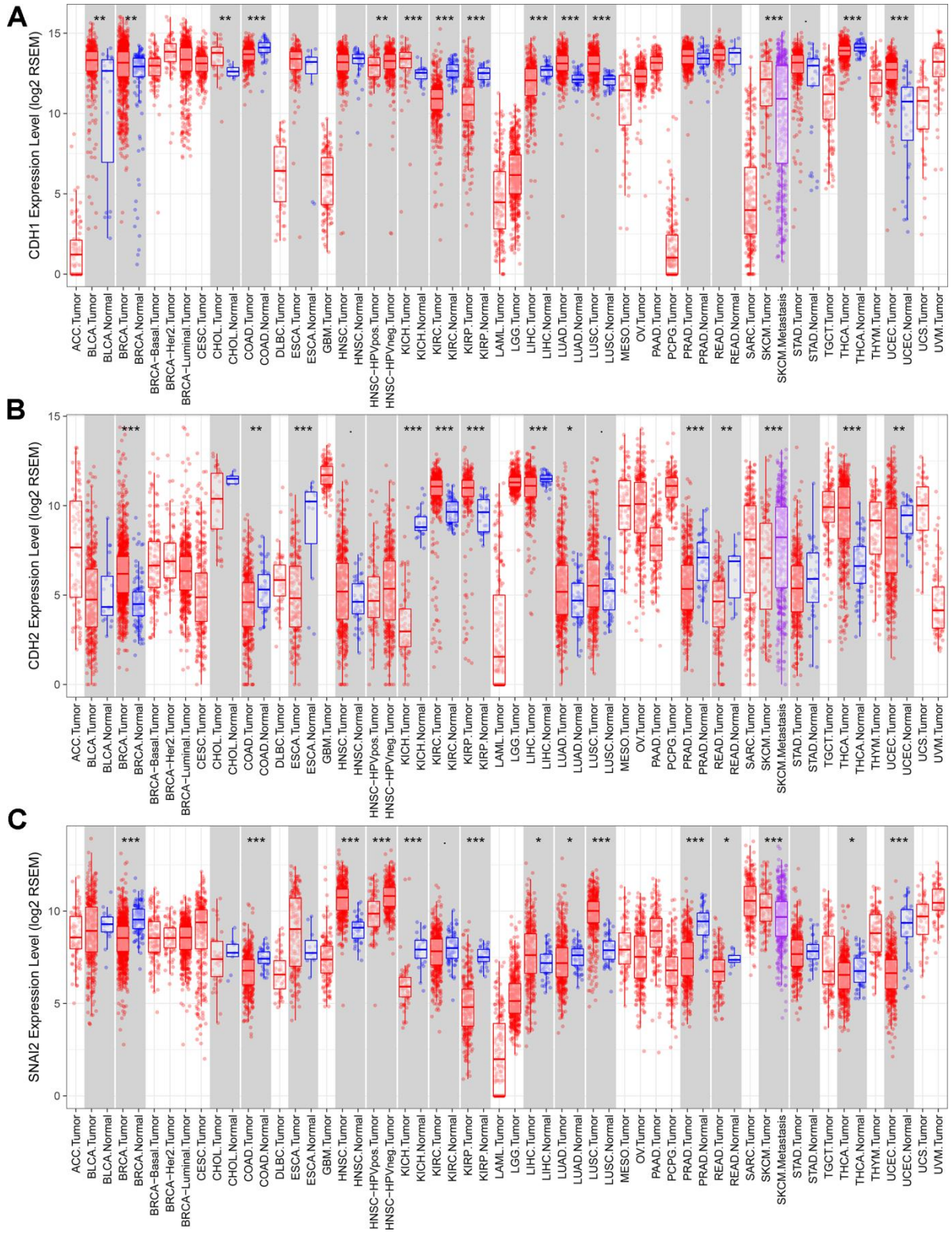
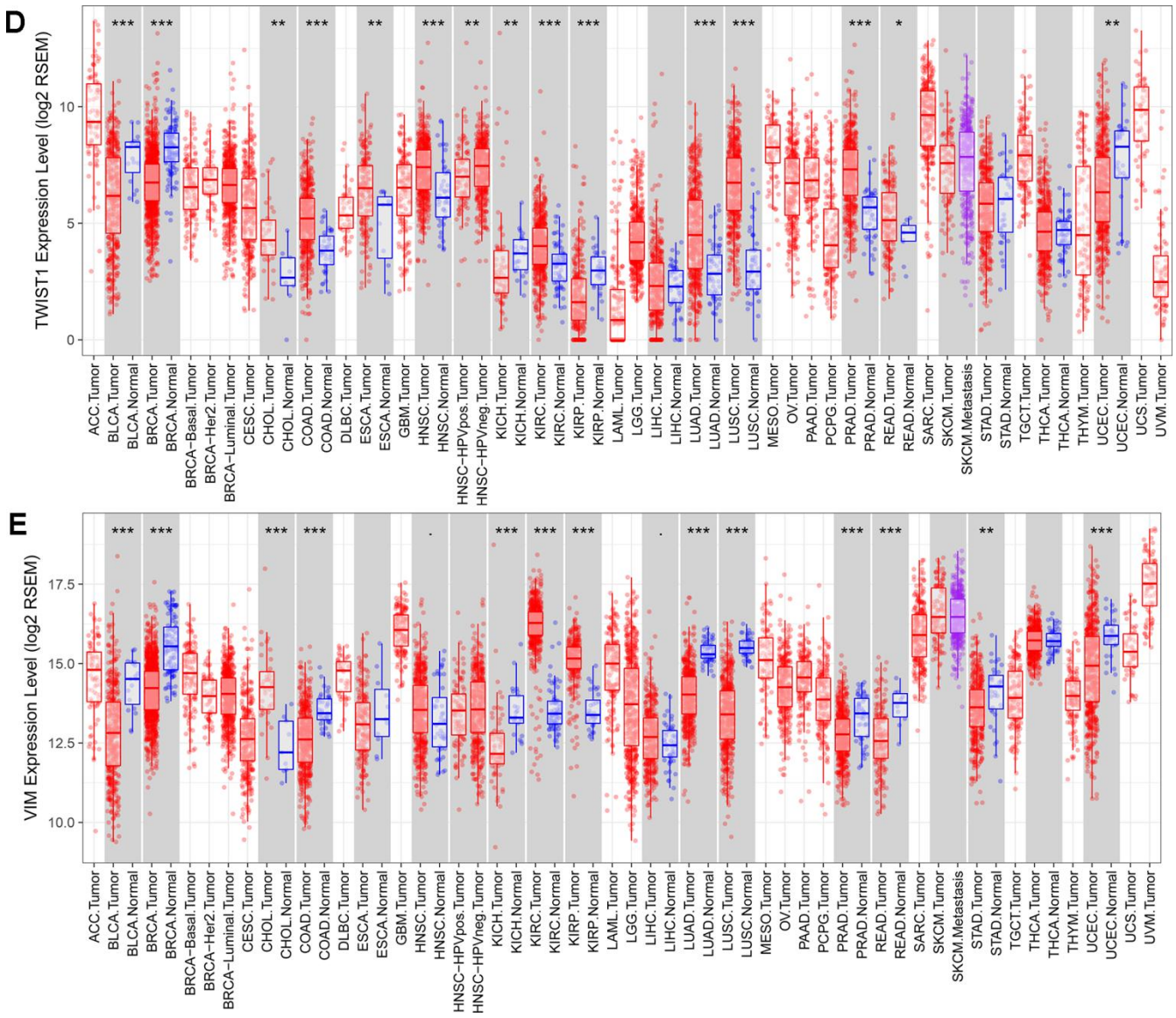
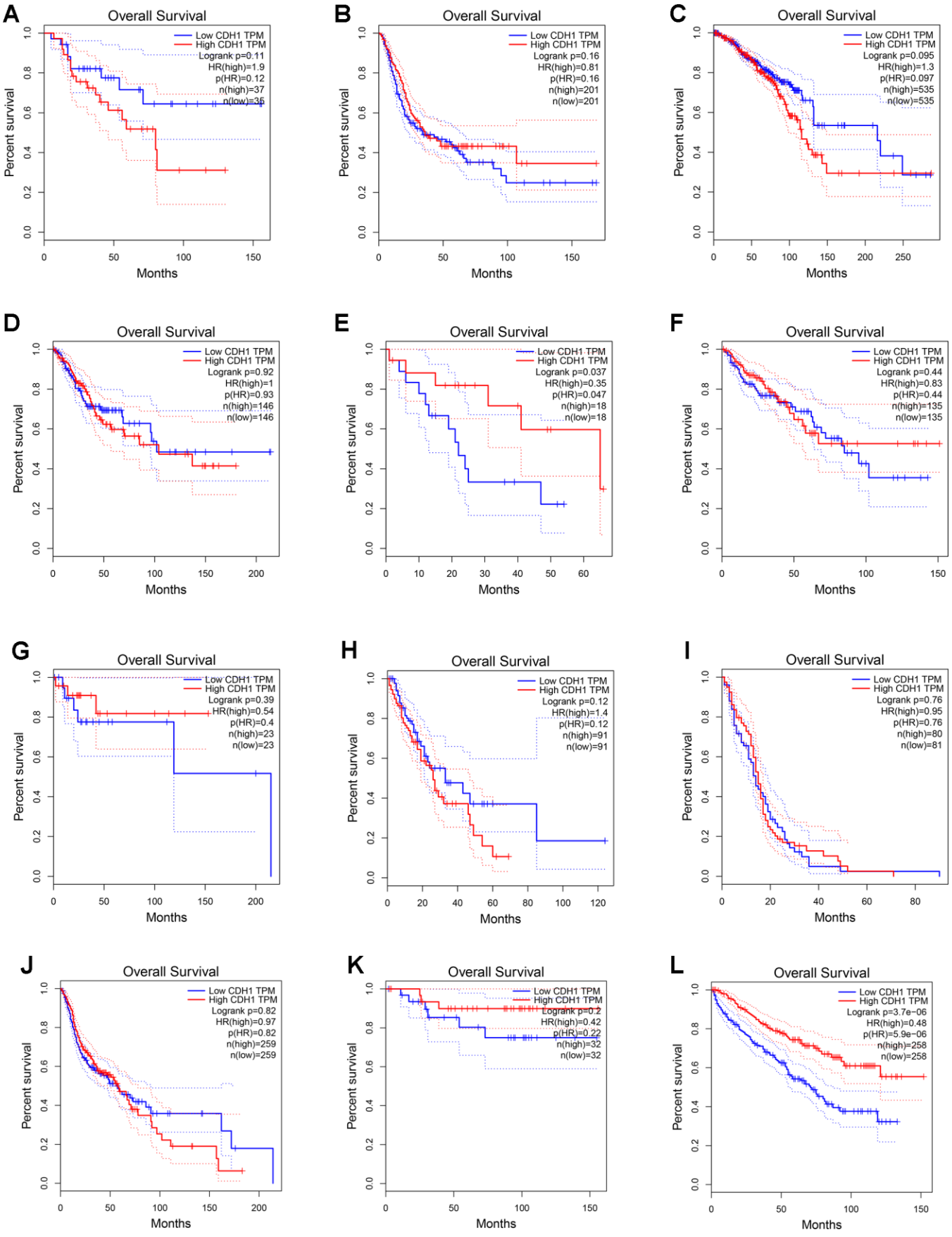
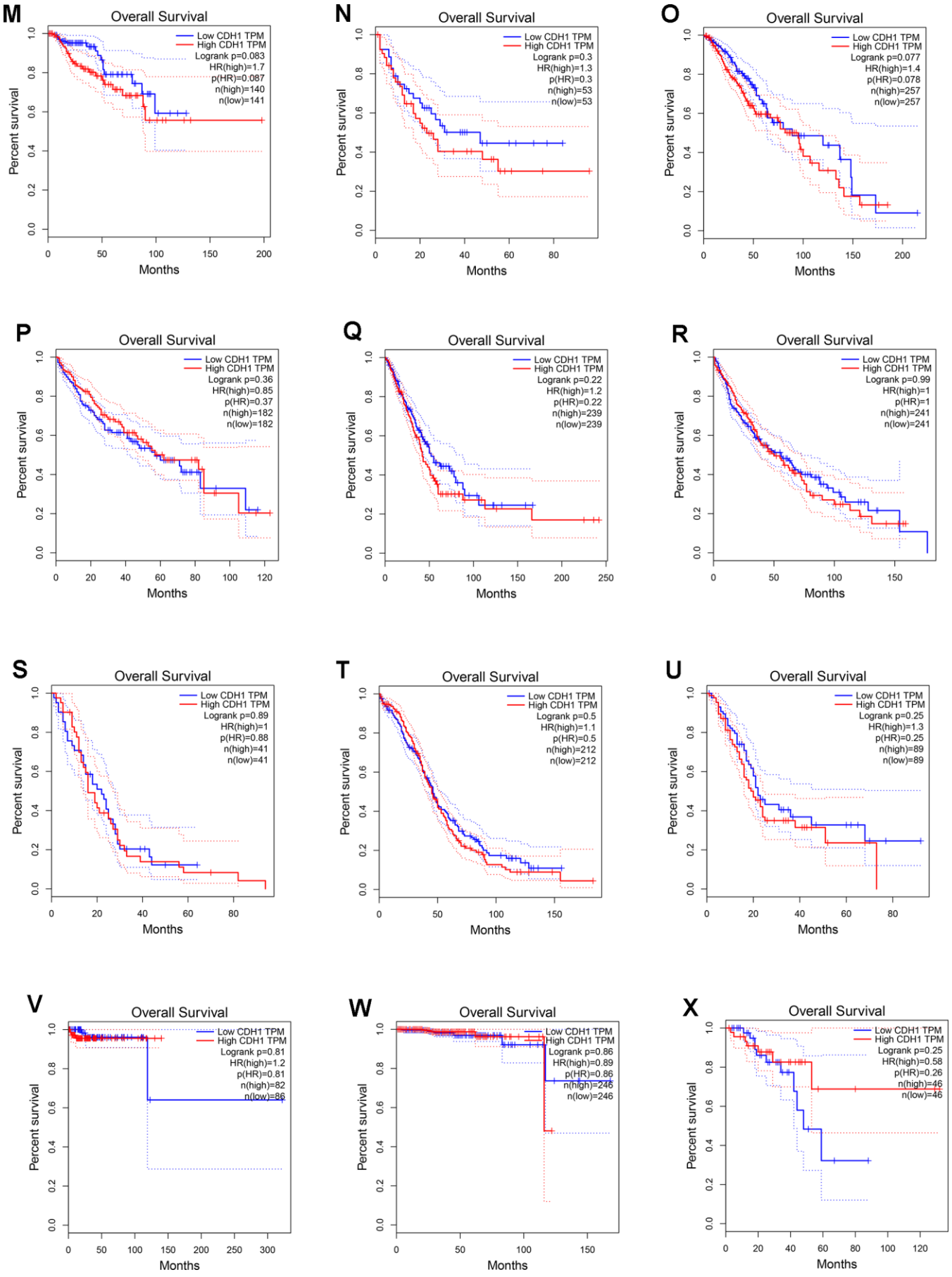
SUPPLEMENTARY FIGURES

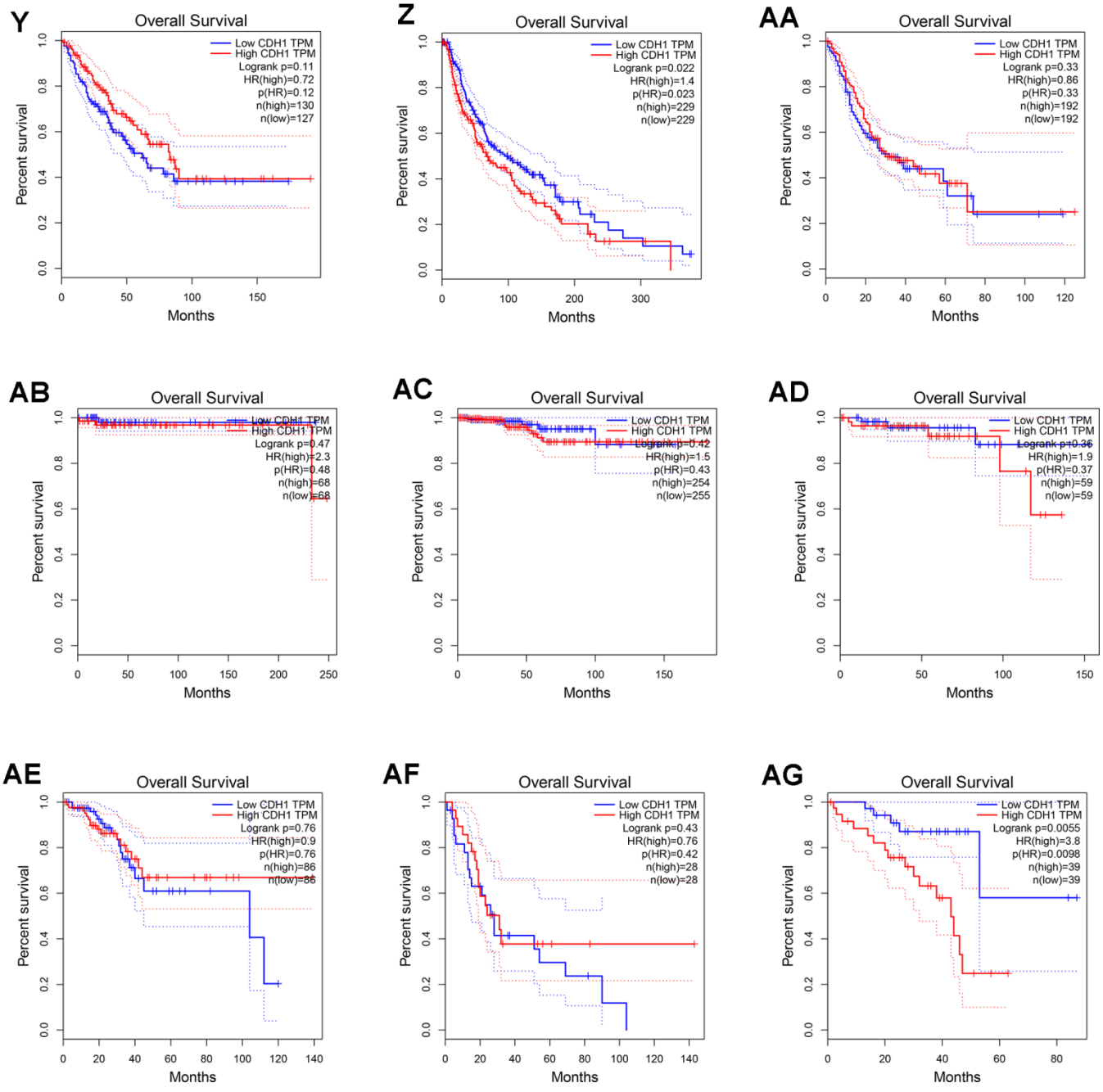




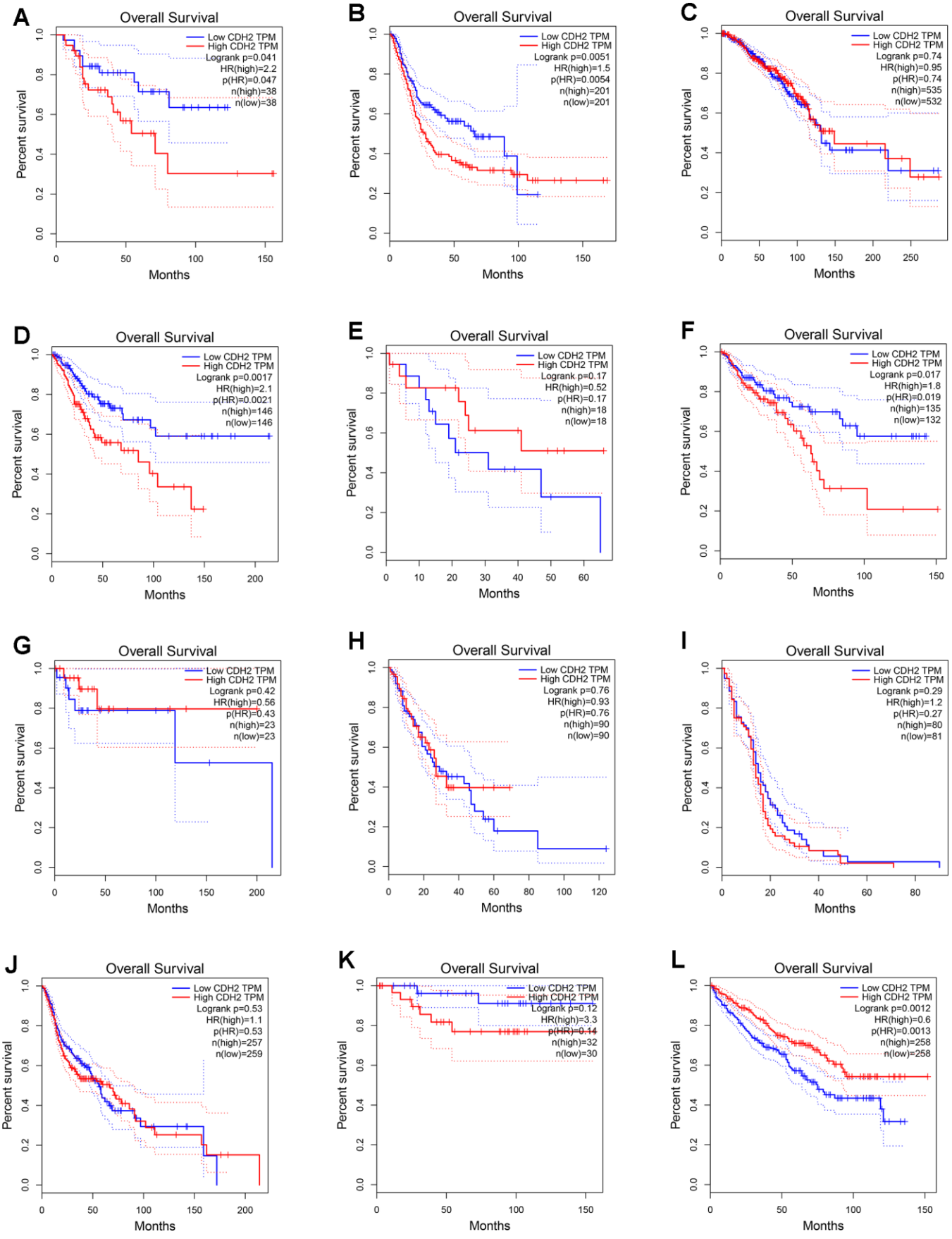
Supplementary Figure 1. The five EMT markers expression levels in different types of human cancers in TCGA dataset.

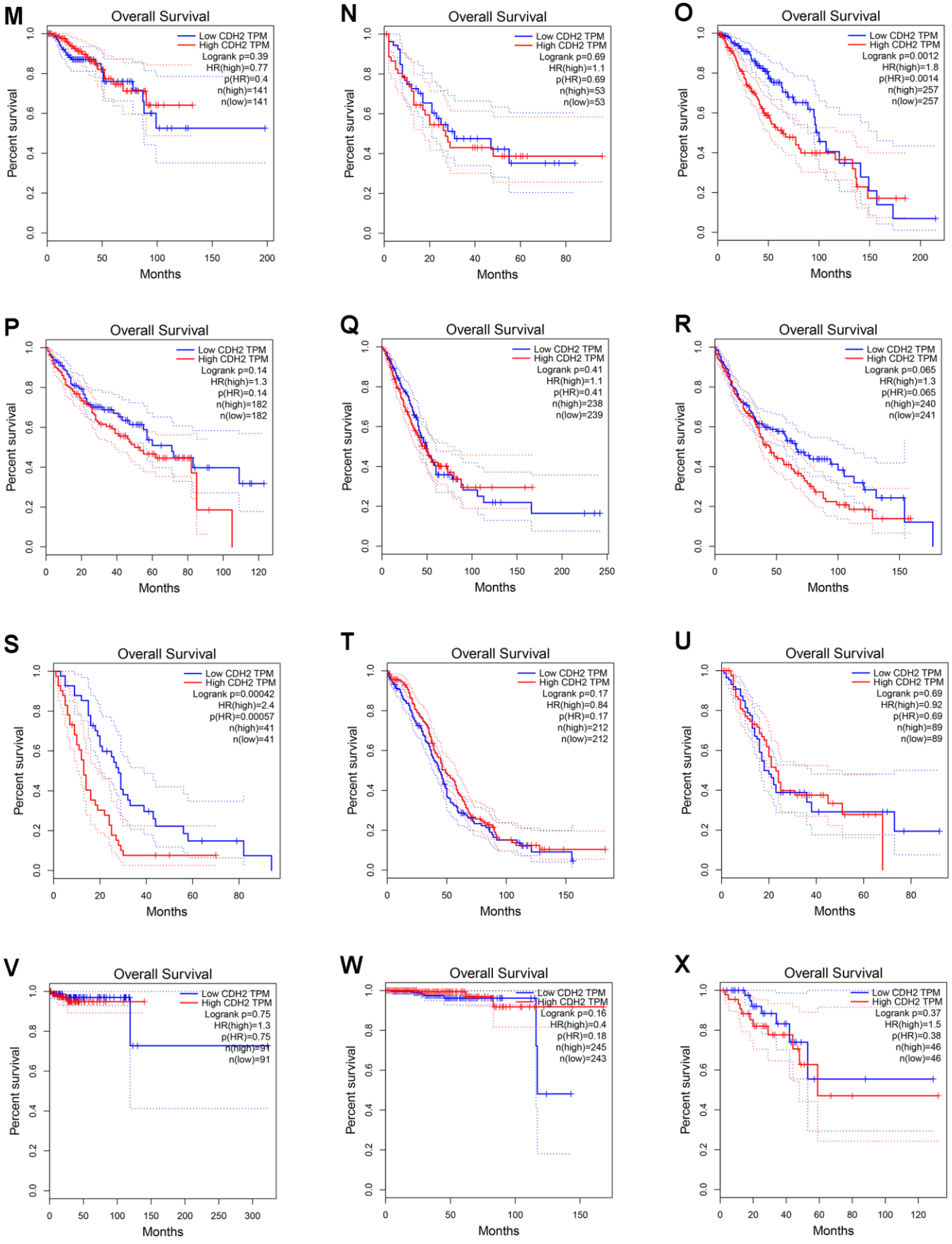

A
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.11
HR(high)=1.9
p(HR)=0.12
n(high)=37
n(low)=36
Percent survival
Months
B
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.16
HR(high)=0.81
p(HR)=0.16
n(high)=201
n(low)=201
Percent survival
Months
C
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.095
HR(high)=1.3
p(HR)=0.097
n(high)=535
n(low)=535
Percent survival
Months
D
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.92
HR(high)=1
p(HR)=0.93
n(high)=146
n(low)=146
Percent survival
Months
E
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.037
HR(high)=0.35
p(HR)=0.047
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.44
HR(high)=0.83
p(HR)=0.44
n(high)=135
n(low)=135
Percent survival
Months
G
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.39
HR(high)=0.54
p(HR)=0.4
n(high)=23
n(low)=23
Percent survival
Months
H
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.12
HR(high)=1.4
p(HR)=0.12
n(high)=91
n(low)=91
Percent survival
Months
I
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.76
HR(high)=0.95
p(HR)=0.76
n(high)=80
n(low)=81
Percent survival
Months
J
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.82
HR(high)=0.97
p(HR)=0.82
n(high)=259
n(low)=259
Percent survival
Months
K
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.2
HR(high)=0.42
p(HR)=0.22
n(high)=32
n(low)=32
Percent survival
Months
L
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=3.7e−06
HR(high)=0.48
p(HR)=5.9e−06
n(high)=258
n(low)=258
Percent survival
Months

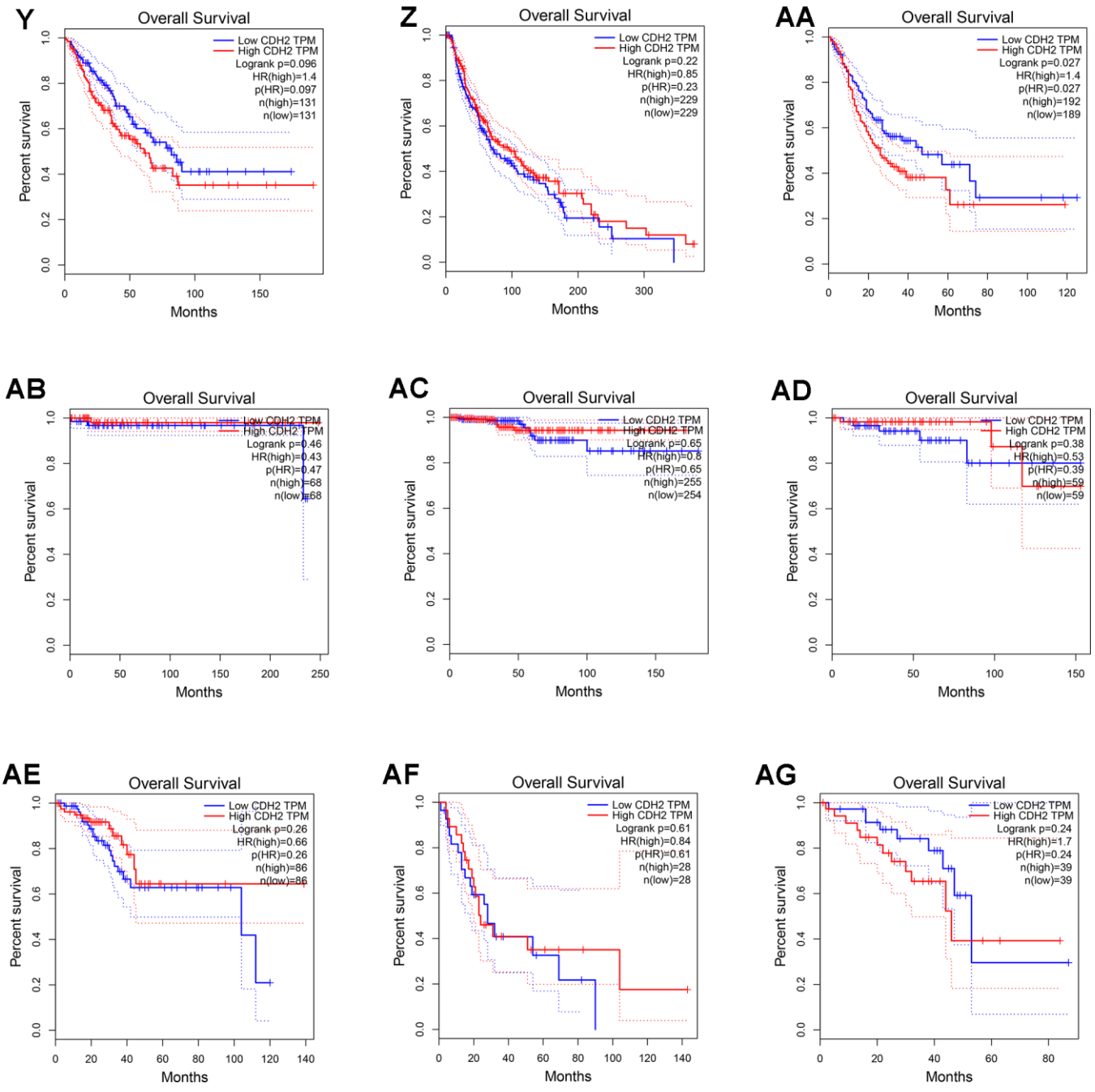

M
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.083
HR(high)=1.7
p(HR)=0.087
n(high)=140
n(low)=141
Percent survival
Months
N
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.3
HR(high)=1.3
p(HR)=0.3
n(high)=53
n(low)=53
Percent survival
Months
O
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.077
HR(high)=1.4
p(HR)=0.078
n(high)=257
n(low)=257
Percent survival
Months
P
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.36
HR(high)=0.85
p(HR)=0.37
n(high)=182
n(low)=182
Percent survival
Months
Q
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.22
HR(high)=1.2
p(HR)=0.22
n(high)=239
n(low)=239
Percent survival
Months
R
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.99
HR(high)=1
p(HR)=1
n(high)=241
n(low)=241
Percent survival
Months
S
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.89
HR(high)=1
p(HR)=0.88
n(high)=41
n(low)=41
Percent survival
Months
T
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.5
HR(high)=1.1
p(HR)=0.5
n(high)=212
n(low)=212
Percent survival
Months
U
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.25
HR(high)=1.3
p(HR)=0.25
n(high)=89
n(low)=89
Percent survival
Months
V
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.81
HR(high)=1.2
p(HR)=0.81
n(high)=82
n(low)=86
Percent survival
Months
W
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.86
HR(high)=0.89
p(HR)=0.86
n(high)=246
n(low)=246
Percent survival
Months
X
Overall Survival
Low CDH1 TPM
High CDH1 TPM
Logrank p=0.25
HR(high)=0.58
p(HR)=0.26
n(high)=46
n(low)=46
Percent survival
Months



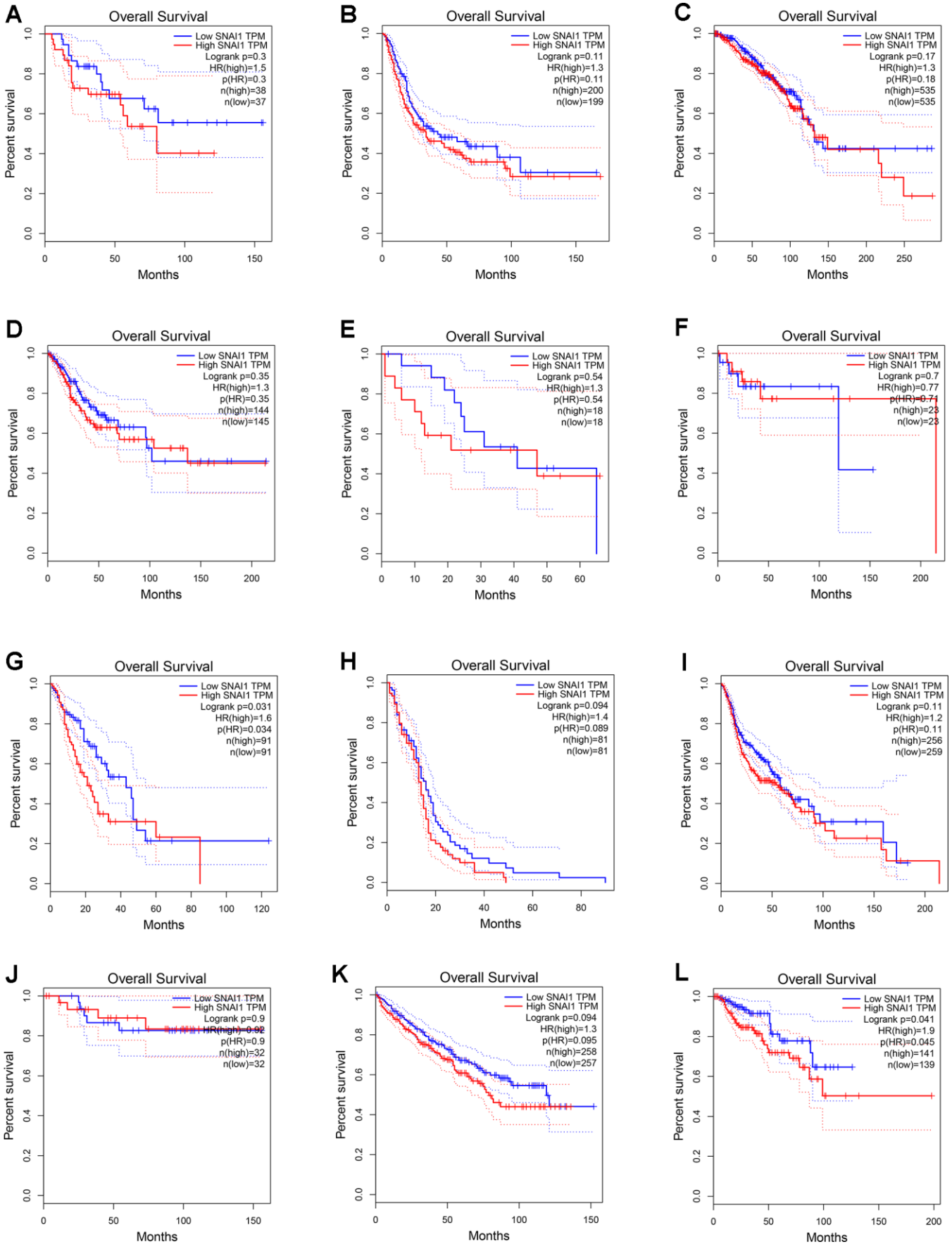
Supplementary Figure 2. Kaplan-Meier survival curves comparing the high and low expression of CDH1 in different types of human cancers in TCGA dataset.

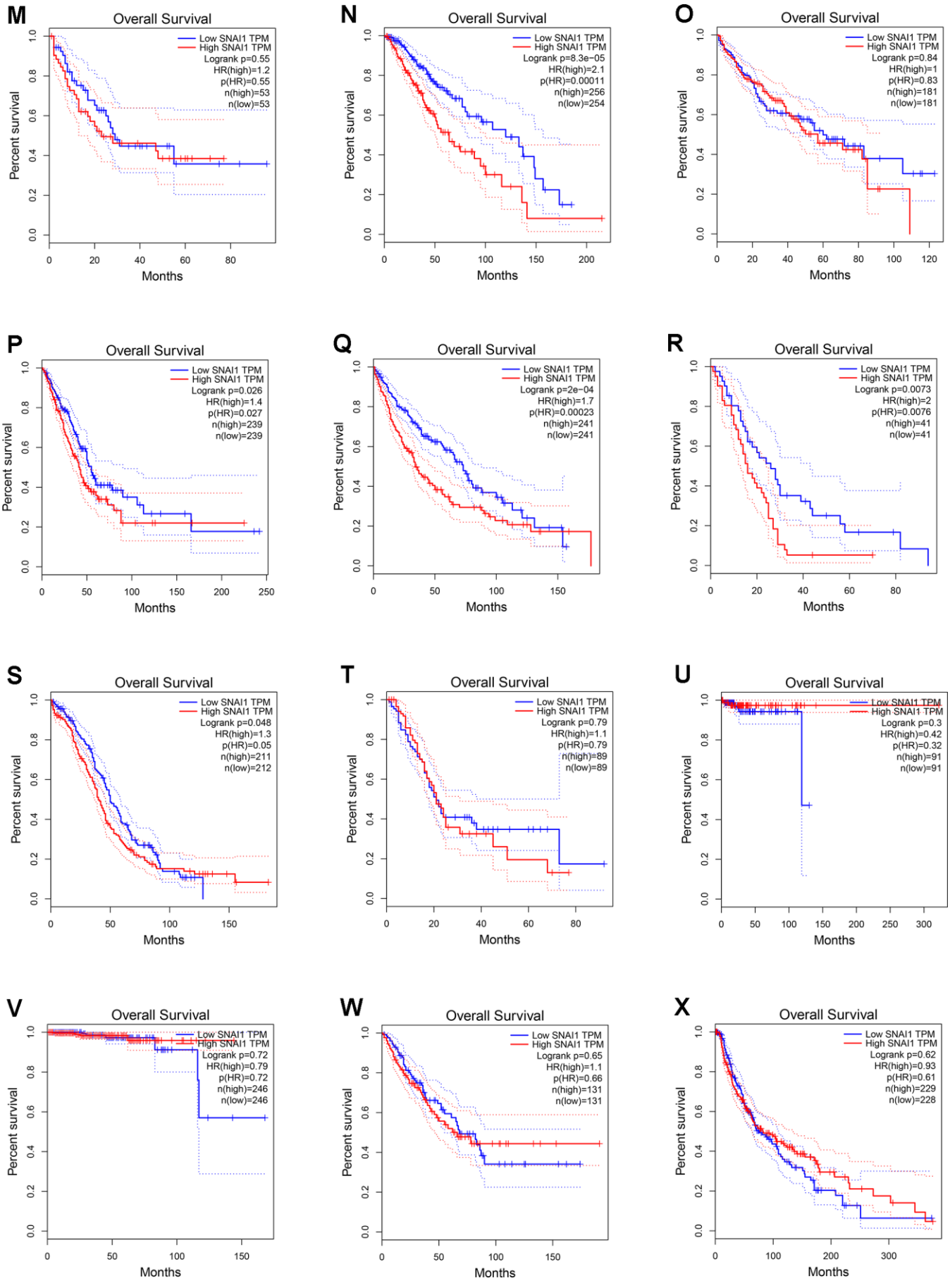

A
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.041
HR(high)=2.2
p(HR)=0.047
n(high)=38
n(low)=38
Percent survival
Months
B
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.0051
HR(high)=1.5
p(HR)=0.0054
n(high)=201
n(low)=201
Percent survival
Months
C
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.74
HR(high)=0.95
p(HR)=0.74
n(high)=535
n(low)=532
Percent survival
Months
D
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.0017
HR(high)=2.1
p(HR)=0.0021
n(high)=146
n(low)=146
Percent survival
Months
E
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.17
HR(high)=0.52
p(HR)=0.17
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.017
HR(high)=1.8
p(HR)=0.019
n(high)=135
n(low)=132
Percent survival
Months
G
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.42
HR(high)=0.56
p(HR)=0.43
n(high)=23
n(low)=23
Percent survival
Months
H
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.76
HR(high)=0.93
p(HR)=0.76
n(high)=90
n(low)=90
Percent survival
Months
I
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.29
HR(high)=1.2
p(HR)=0.27
n(high)=80
n(low)=81
Percent survival
Months
J
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.53
HR(high)=1.1
p(HR)=0.53
n(high)=257
n(low)=259
Percent survival
Months
K
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.12
HR(high)=3.3
p(HR)=0.14
n(high)=32
n(low)=30
Percent survival
Months
L
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.0012
HR(high)=0.6
p(HR)=0.0013
n(high)=258
n(low)=258
Percent survival
Months

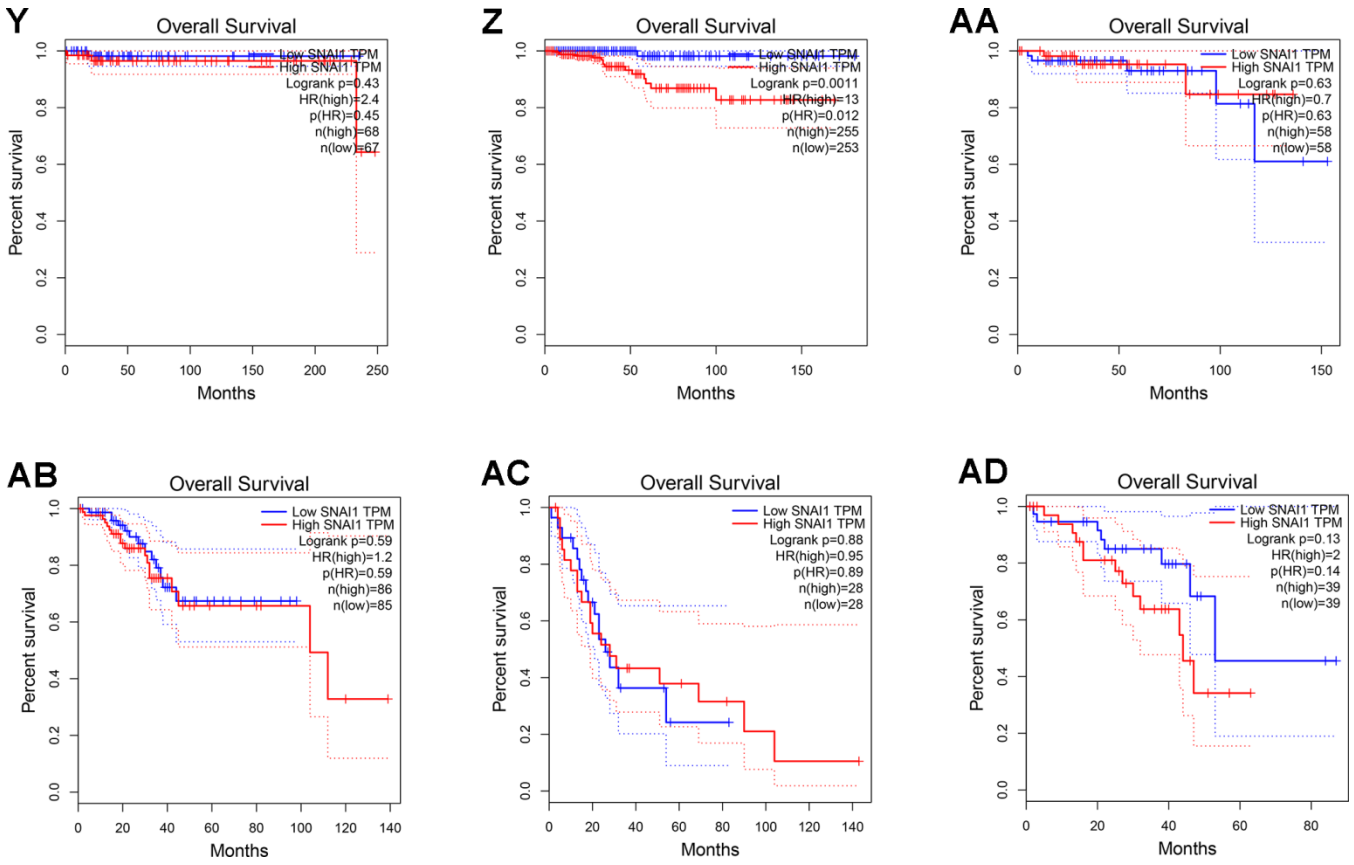

M
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.39
HR(high)=0.77
p(HR)=0.4
n(high)=141
n(low)=141
Percent survival
Months
N
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.69
HR(high)=1.1
p(HR)=0.69
n(high)=53
n(low)=53
Percent survival
Months
O
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.0012
HR(high)=1.8
p(HR)=0.0014
n(high)=257
n(low)=257
Percent survival
Months
P
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.14
HR(high)=1.3
p(HR)=0.14
n(high)=182
n(low)=182
Percent survival
Months
Q
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.41
HR(high)=1.1
p(HR)=0.41
n(high)=238
n(low)=239
Percent survival
Months
R
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.065
HR(high)=1.3
p(HR)=0.065
n(high)=240
n(low)=241
Percent survival
Months
S
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.00042
HR(high)=2.4
p(HR)=0.00057
n(high)=41
n(low)=41
Percent survival
Months
T
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.17
HR(high)=0.84
p(HR)=0.17
n(high)=212
n(low)=212
Percent survival
Months
U
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.69
HR(high)=0.92
p(HR)=0.69
n(high)=89
n(low)=89
Percent survival
Months
V
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.75
HR(high)=1.3
p(HR)=0.75
n(high)=91
n(low)=91
Percent survival
Months
W
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.16
HR(high)=0.4
p(HR)=0.18
n(high)=245
n(low)=243
Percent survival
Months
X
Overall Survival
Low CDH2 TPM
High CDH2 TPM
Logrank p=0.37
HR(high)=1.5
p(HR)=0.38
n(high)=46
n(low)=46
Percent survival
Months



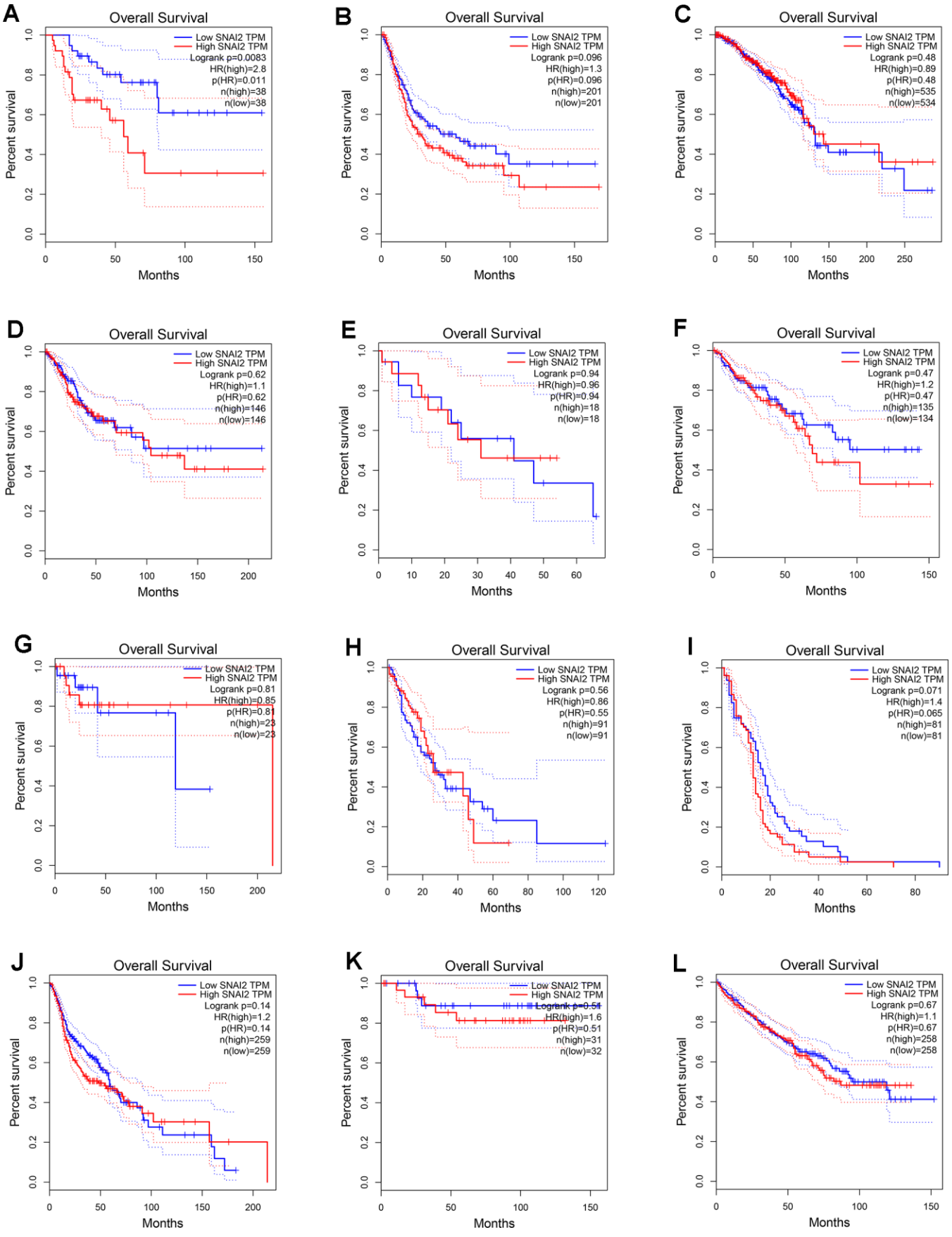
Supplementary Figure 3. Kaplan-Meier survival curves comparing the high and low expression of CDH2 in different types of human cancers in TCGA dataset.

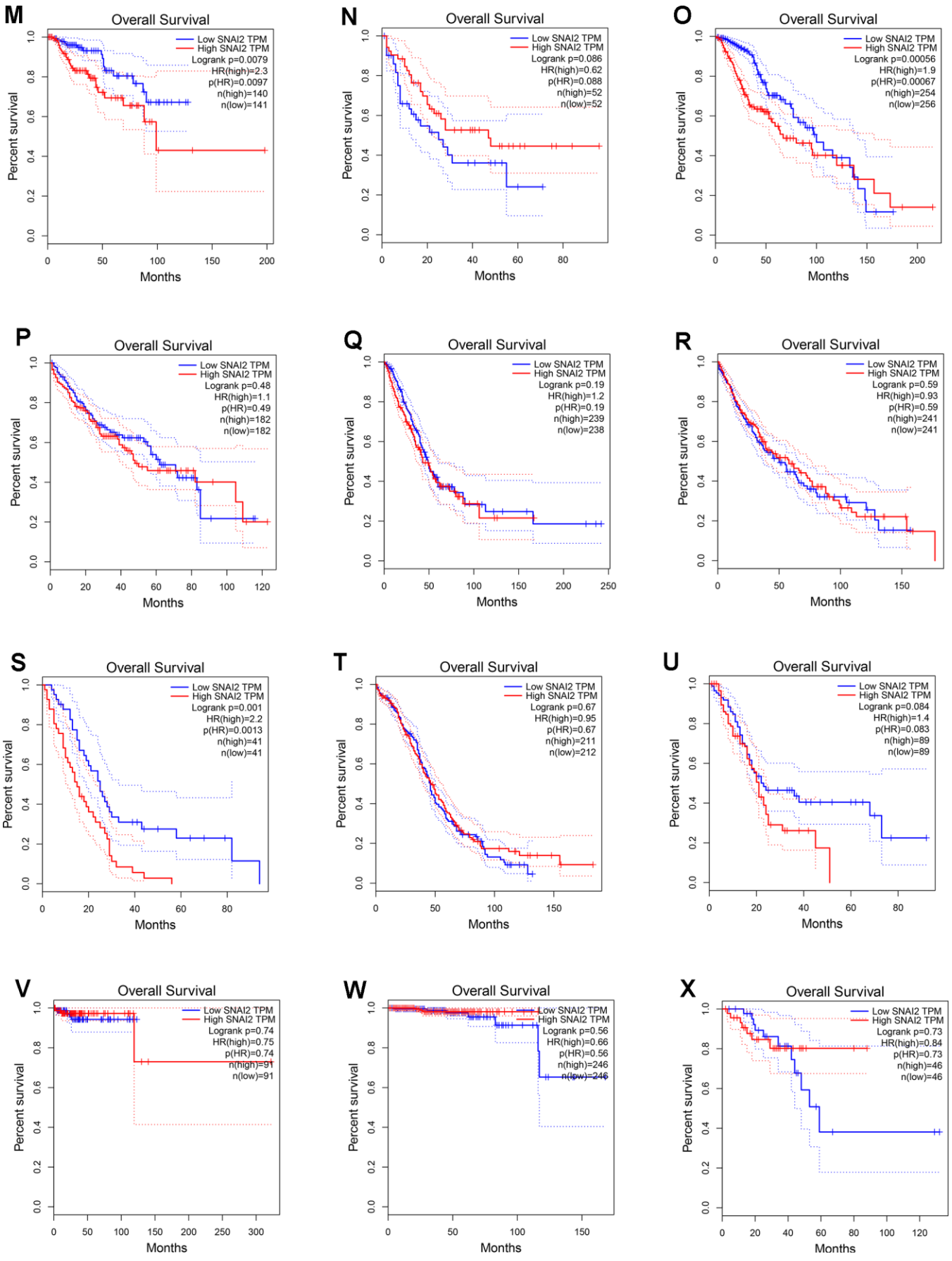

A
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.3
HR(high)=1.5
p(HR)=0.3
n(high)=38
n(low)=37
Percent survival
Months
B
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.11
HR(high)=1.3
p(HR)=0.11
n(high)=200
n(low)=199
Percent survival
Months
C
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.17
HR(high)=1.3
p(HR)=0.18
n(high)=535
n(low)=535
Percent survival
Months
D
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.35
HR(high)=1.3
p(HR)=0.35
n(high)=144
n(low)=145
Percent survival
Months
E
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.54
HR(high)=1.3
p(HR)=0.54
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.7
HR(high)=0.77
p(HR)=0.71
n(high)=23
n(low)=23
Percent survival
Months
G
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.031
HR(high)=1.6
p(HR)=0.034
n(high)=91
n(low)=91
Percent survival
Months
H
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.094
HR(high)=1.4
p(HR)=0.089
n(high)=81
n(low)=81
Percent survival
Months
I
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.11
HR(high)=1.2
p(HR)=0.11
n(high)=256
n(low)=259
Percent survival
Months
J
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.9
HR(high)=0.92
p(HR)=0.9
n(high)=32
n(low)=32
Percent survival
Months
K
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.094
HR(high)=1.3
p(HR)=0.095
n(high)=258
n(low)=257
Percent survival
Months
L
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.041
HR(high)=1.9
p(HR)=0.045
n(high)=141
n(low)=139
Percent survival
Months

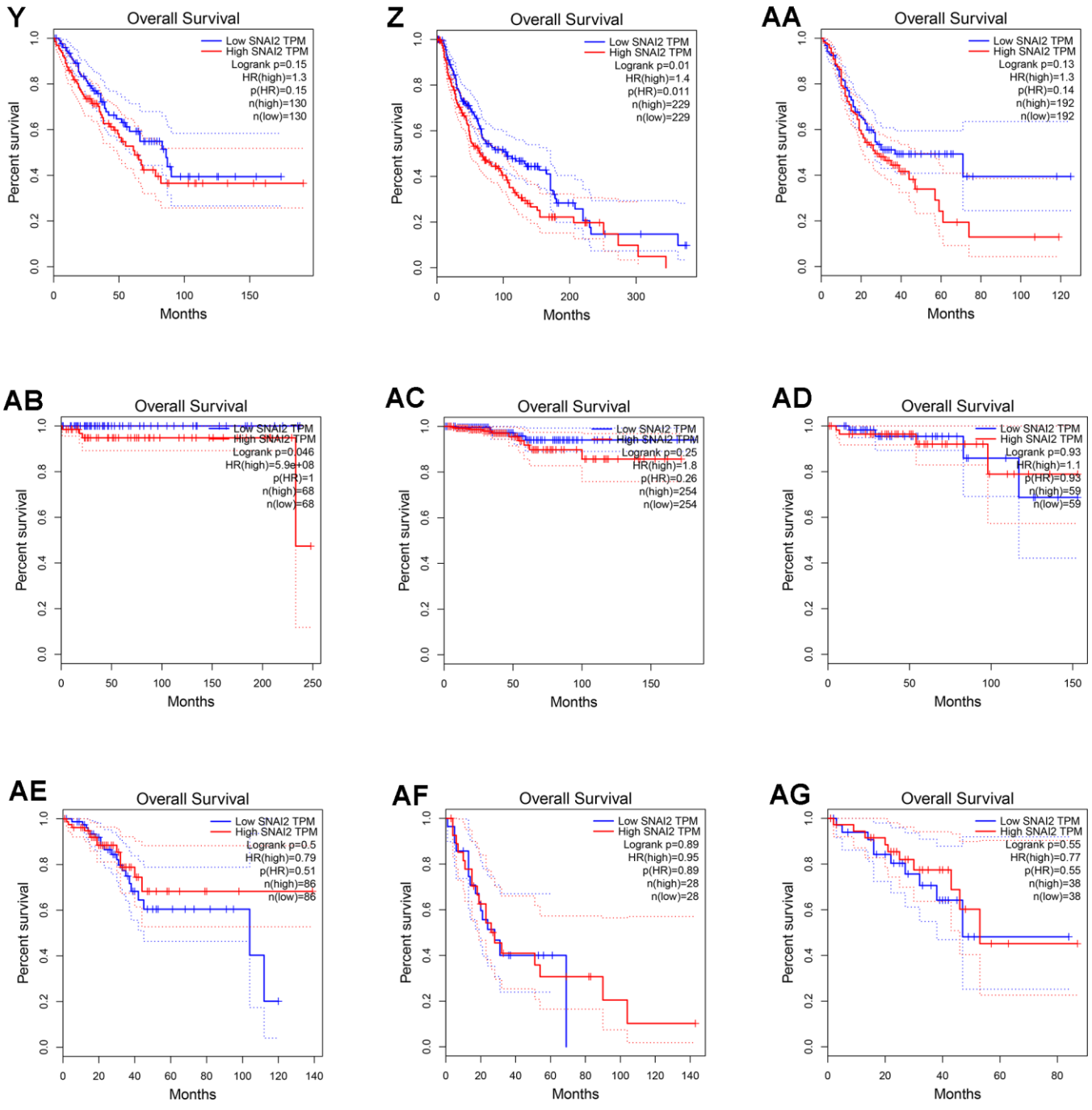

M
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.55
HR(high)=1.2
p(HR)=0.55
n(high)=53
n(low)=53
Percent survival
Months
N
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=8.3e−05
HR(high)=2.1
p(HR)=0.00011
n(high)=256
n(low)=254
Percent survival
Months
O
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.84
HR(high)=1
p(HR)=0.83
n(high)=181
n(low)=181
Percent survival
Months
P
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.026
HR(high)=1.4
p(HR)=0.027
n(high)=239
n(low)=239
Percent survival
Months
Q
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=2e−04
HR(high)=1.7
p(HR)=0.00023
n(high)=241
n(low)=241
Percent survival
Months
R
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.0073
HR(high)=2
p(HR)=0.0076
n(high)=41
n(low)=41
Percent survival
Months
S
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.048
HR(high)=1.3
p(HR)=0.05
n(high)=211
n(low)=212
Percent survival
Months
T
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.79
HR(high)=1.1
p(HR)=0.79
n(high)=89
n(low)=89
Percent survival
Months
U
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.3
HR(high)=0.42
p(HR)=0.32
n(high)=91
n(low)=91
Percent survival
Months
V
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.72
HR(high)=0.79
p(HR)=0.72
n(high)=246
n(low)=246
Percent survival
Months
W
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.65
HR(high)=1.1
p(HR)=0.66
n(high)=131
n(low)=131
Percent survival
Months
X
Overall Survival
Low SNAI1 TPM
High SNAI1 TPM
Logrank p=0.62
HR(high)=0.93
p(HR)=0.61
n(high)=229
n(low)=228
Percent survival
Months



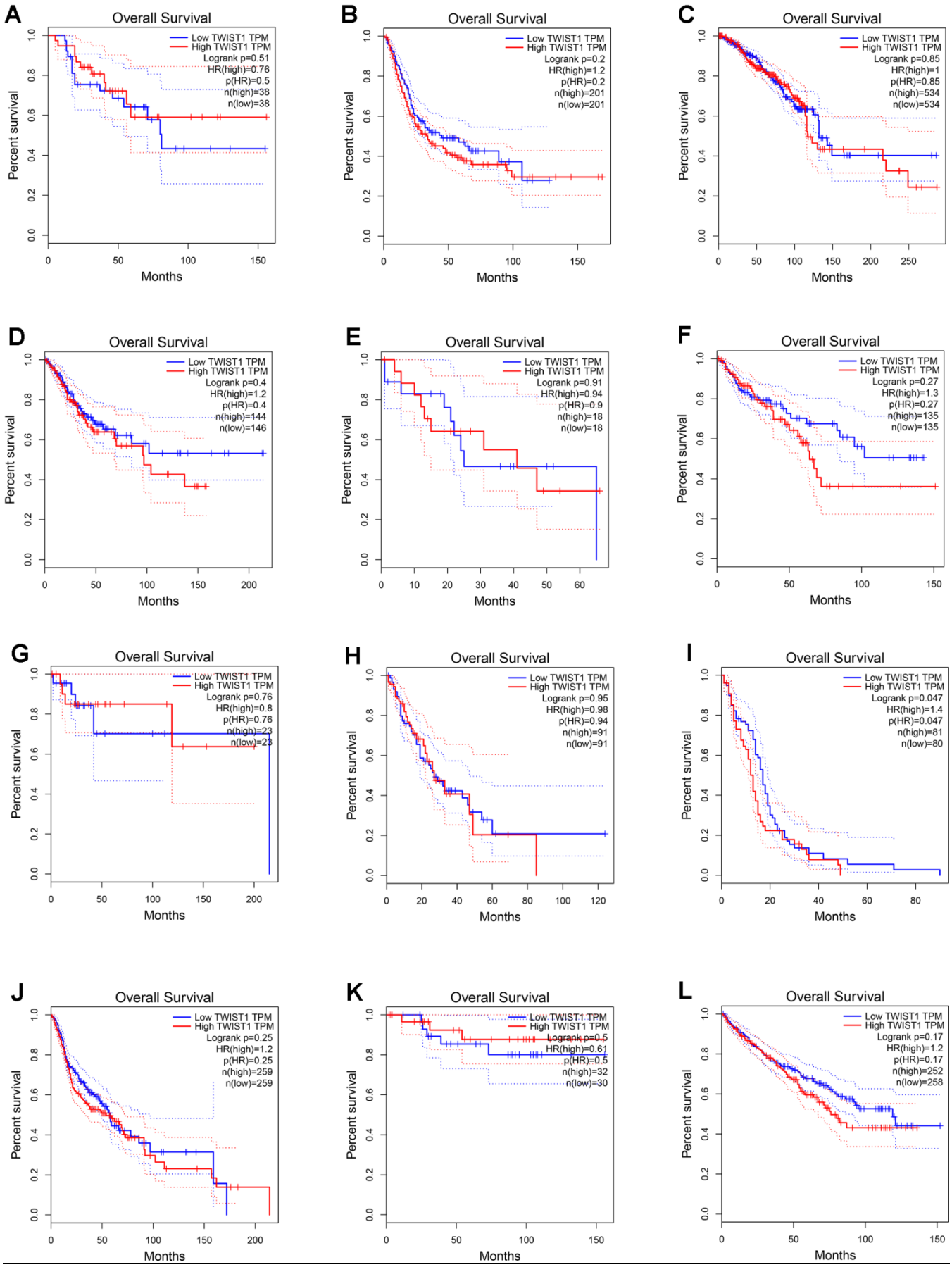
Supplementary Figure 4. Kaplan-Meier survival curves comparing the high and low expression of SNAI1 in different types of human cancers in TCGA dataset.

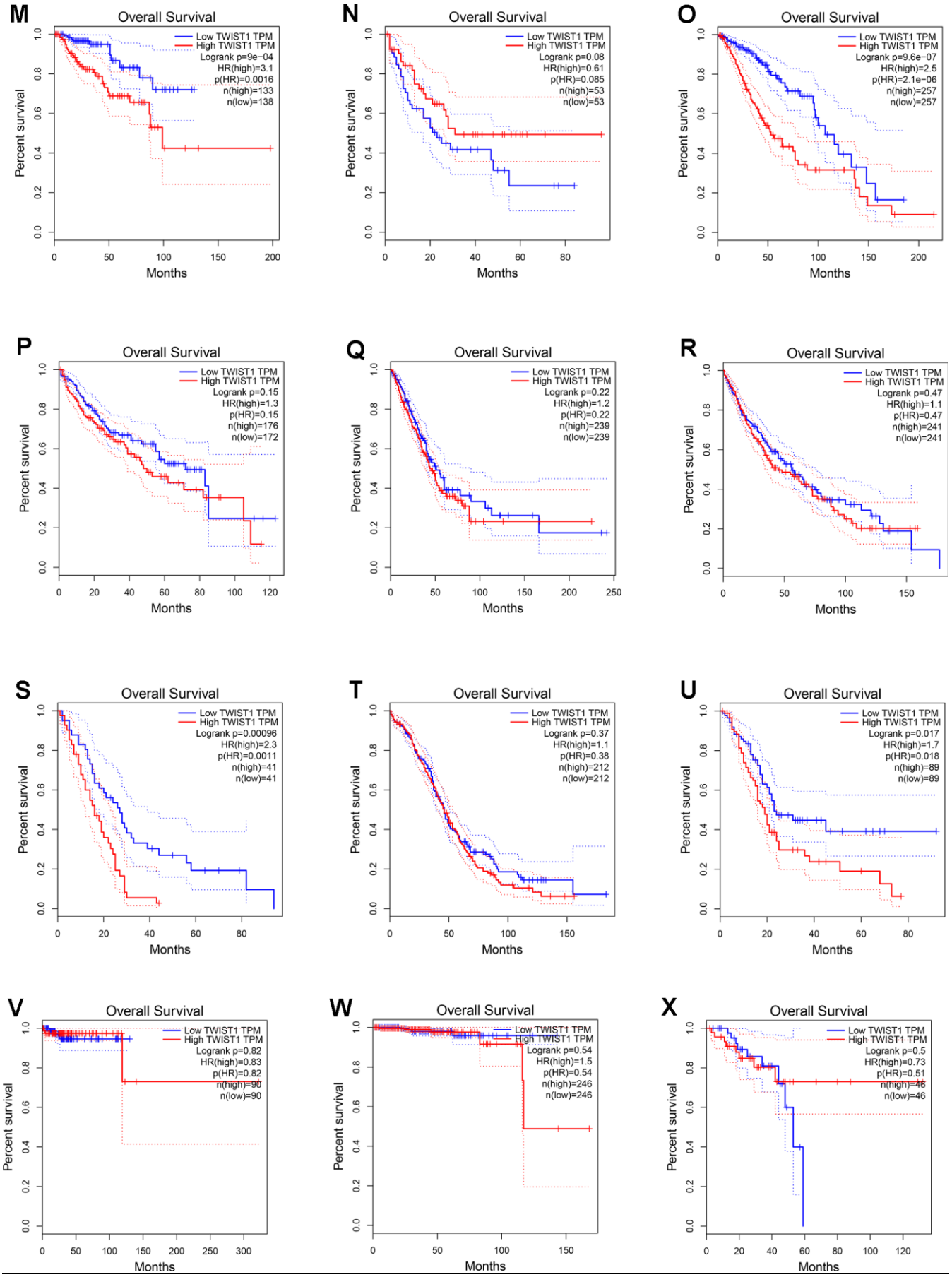

A
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.0083
HR(high)=2.8
p(HR)=0.011
n(high)=38
n(low)=38
Percent survival
Months
B
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.096
HR(high)=1.3
p(HR)=0.096
n(high)=201
n(low)=201
Percent survival
Months
C
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.48
HR(high)=0.89
p(HR)=0.48
n(high)=535
n(low)=534
Percent survival
Months
D
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.62
HR(high)=1.1
p(HR)=0.62
n(high)=146
n(low)=146
Percent survival
Months
E
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.94
HR(high)=0.96
p(HR)=0.94
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.47
HR(high)=1.2
p(HR)=0.47
n(high)=135
n(low)=134
Percent survival
Months
G
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.81
HR(high)=0.85
p(HR)=0.81
n(high)=23
n(low)=23
Percent survival
Months
H
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.56
HR(high)=0.86
p(HR)=0.55
n(high)=91
n(low)=91
Percent survival
Months
I
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.071
HR(high)=1.4
p(HR)=0.065
n(high)=81
n(low)=81
Percent survival
Months
J
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.14
HR(high)=1.2
p(HR)=0.14
n(high)=259
n(low)=259
Percent survival
Months
K
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.51
HR(high)=1.6
p(HR)=0.51
n(high)=31
n(low)=32
Percent survival
Months
L
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.67
HR(high)=1.1
p(HR)=0.67
n(high)=258
n(low)=258
Percent survival
Months

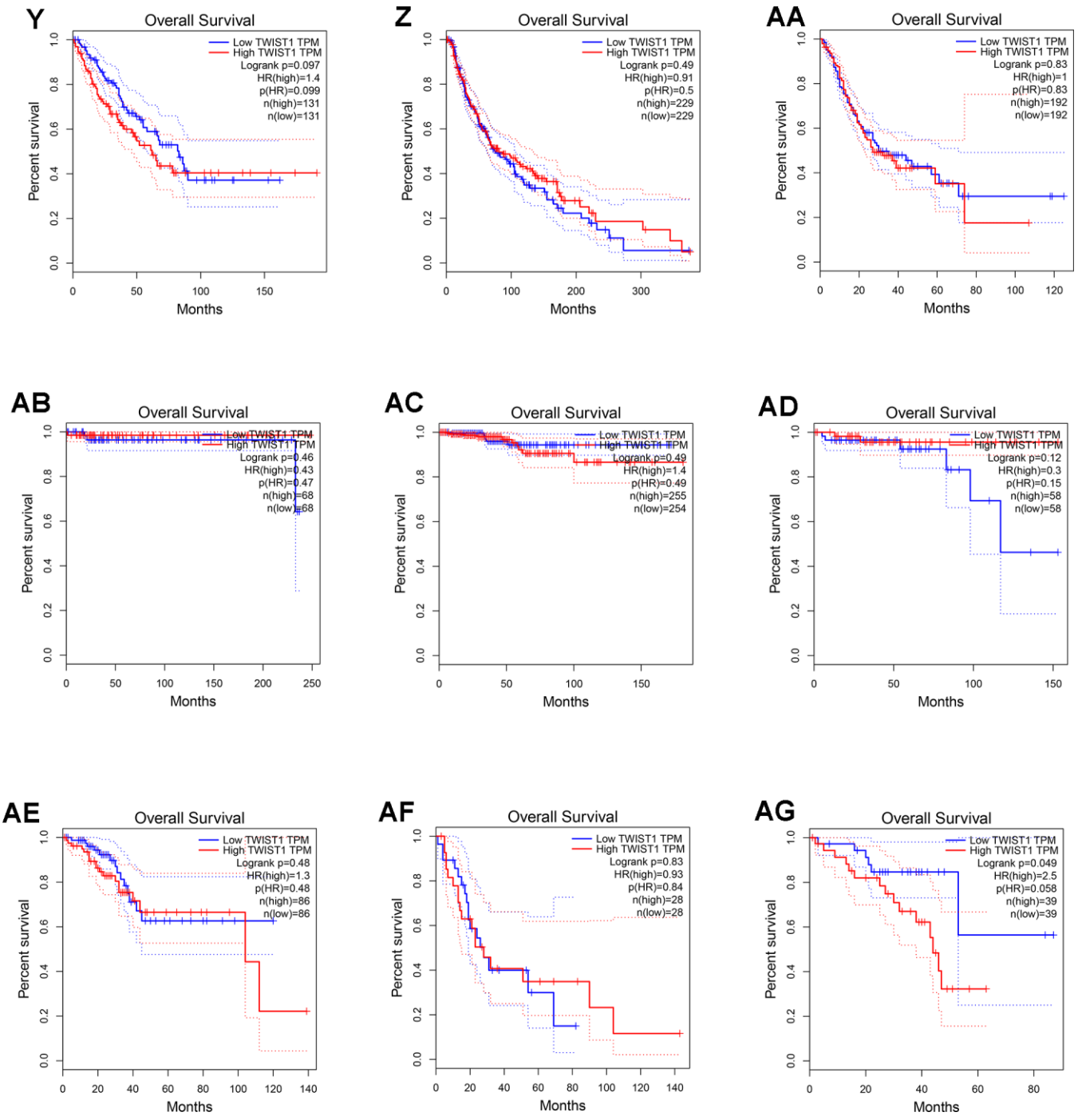

M
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.0079
HR(high)=2.3
p(HR)=0.0097
n(high)=140
n(low)=141
Percent survival
Months
N
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.086
HR(high)=0.62
p(HR)=0.088
n(high)=52
n(low)=52
Percent survival
Months
O
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.00056
HR(high)=1.9
p(HR)=0.00067
n(high)=254
n(low)=256
Percent survival
Months
P
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.48
HR(high)=1.1
p(HR)=0.49
n(high)=182
n(low)=182
Percent survival
Months
Q
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.19
HR(high)=1.2
p(HR)=0.19
n(high)=239
n(low)=238
Percent survival
Months
R
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.59
HR(high)=0.93
p(HR)=0.59
n(high)=241
n(low)=241
Percent survival
Months
S
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.001
HR(high)=2.2
p(HR)=0.0013
n(high)=41
n(low)=41
Percent survival
Months
T
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.67
HR(high)=0.95
p(HR)=0.67
n(high)=211
n(low)=212
Percent survival
Months
U
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.084
HR(high)=1.4
p(HR)=0.083
n(high)=89
n(low)=89
Percent survival
Months
V
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.74
HR(high)=0.75
p(HR)=0.74
n(high)=91
n(low)=91
Percent survival
Months
W
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.56
HR(high)=0.66
p(HR)=0.56
n(high)=246
n(low)=246
Percent survival
Months
X
Overall Survival
Low SNAI2 TPM
High SNAI2 TPM
Logrank p=0.73
HR(high)=0.84
p(HR)=0.73
n(high)=46
n(low)=46
Percent survival
Months



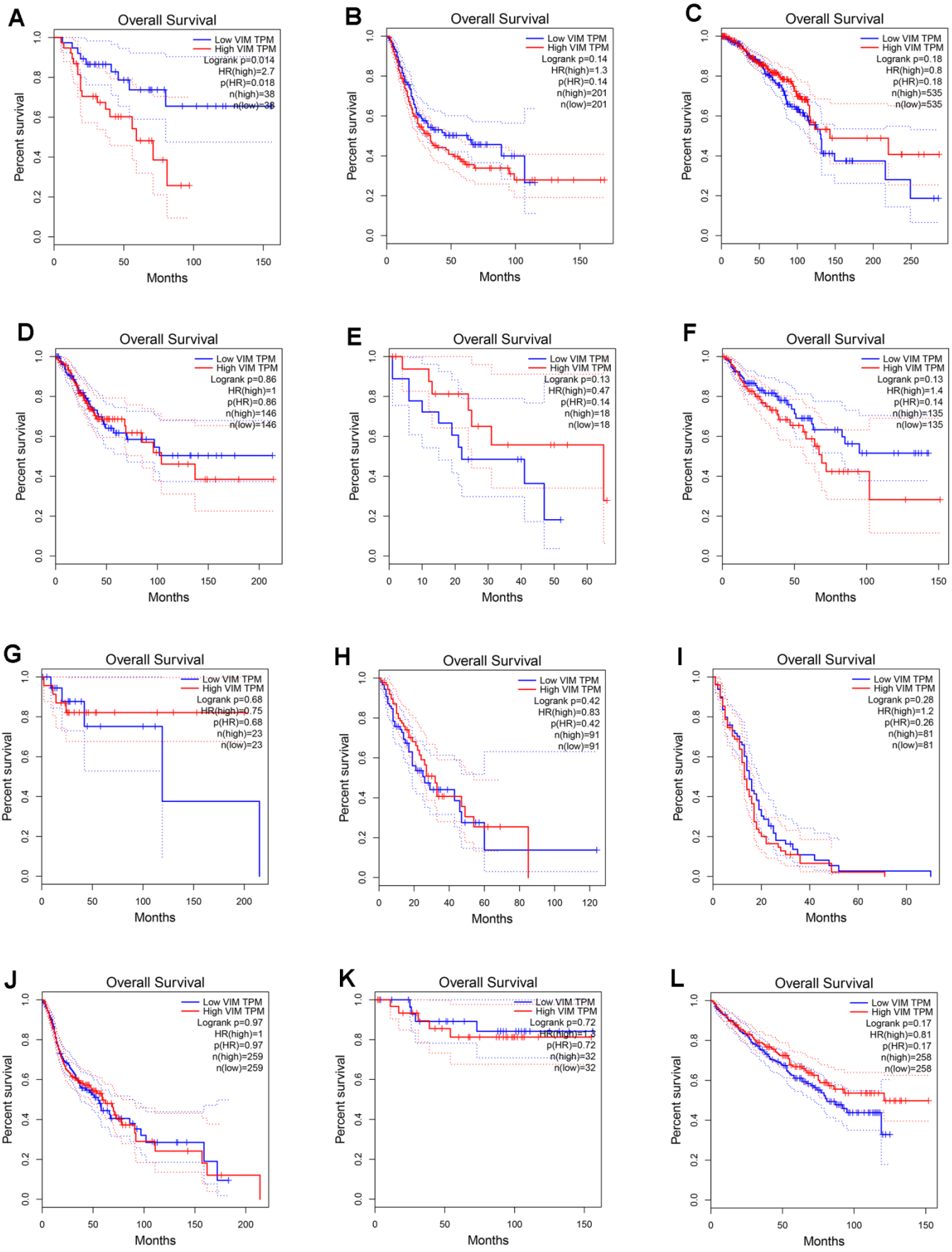
Supplementary Figure 5. Kaplan-Meier survival curves comparing the high and low expression of SNAI2 in different types of human cancers in TCGA dataset.

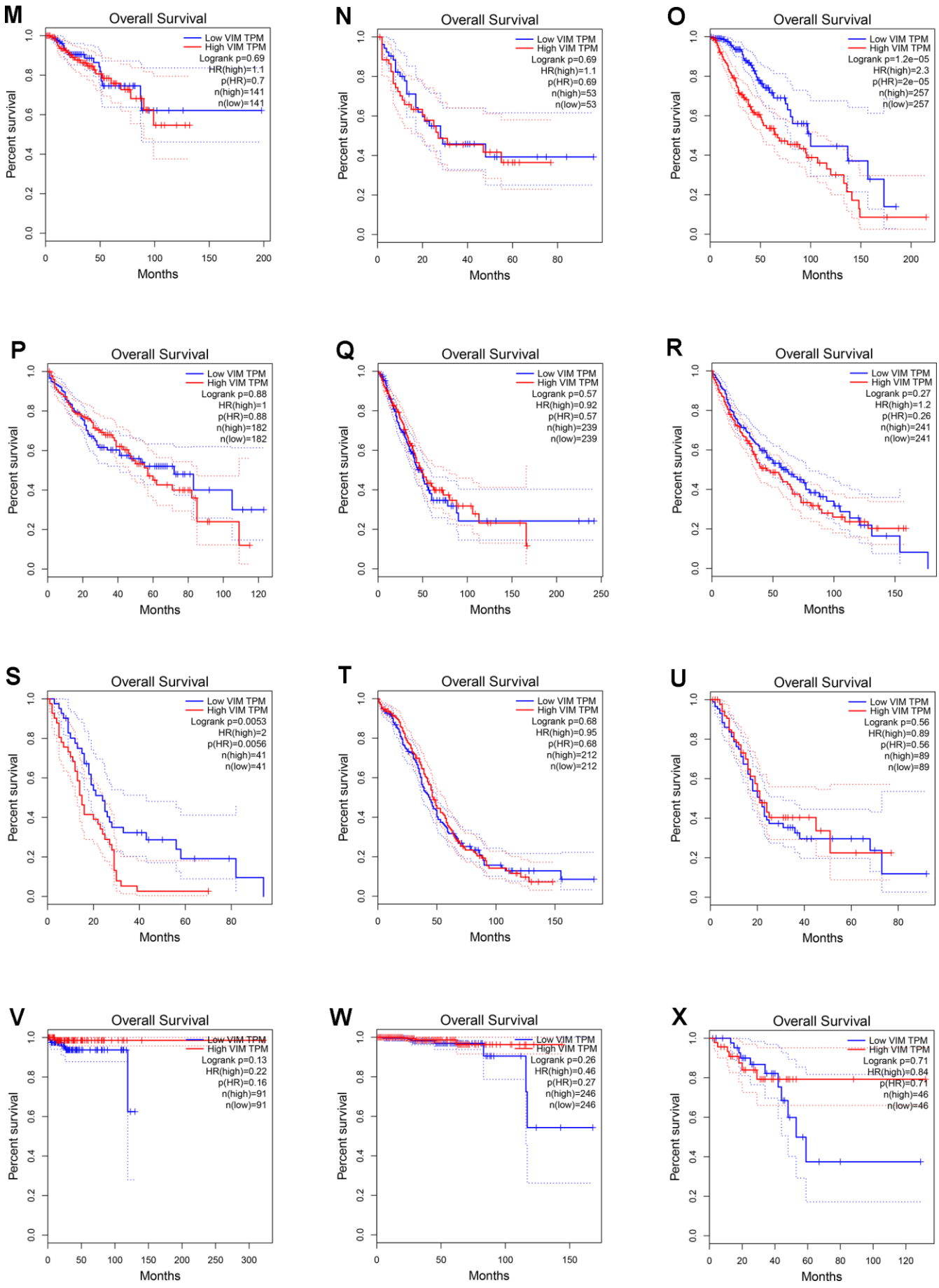

A
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.51
HR(high)=0.76
p(HR)=0.5
n(high)=38
n(low)=38
Percent survival
Months
B
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.2
HR(high)=1.2
p(HR)=0.2
n(high)=201
n(low)=201
Percent survival
Months
C
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.85
HR(high)=1
p(HR)=0.85
n(high)=534
n(low)=534
Percent survival
Months
D
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.4
HR(high)=1.2
p(HR)=0.4
n(high)=144
n(low)=146
Percent survival
Months
E
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.91
HR(high)=0.94
p(HR)=0.9
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.27
HR(high)=1.3
p(HR)=0.27
n(high)=135
n(low)=135
Percent survival
Months
G
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.76
HR(high)=0.8
p(HR)=0.76
n(high)=23
n(low)=23
Percent survival
Months
H
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.95
HR(high)=0.98
p(HR)=0.94
n(high)=91
n(low)=91
Percent survival
Months
I
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.047
HR(high)=1.4
p(HR)=0.047
n(high)=81
n(low)=80
Percent survival
Months
J
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.25
HR(high)=1.2
p(HR)=0.25
n(high)=259
n(low)=259
Percent survival
Months
K
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.5
HR(high)=0.61
p(HR)=0.5
n(high)=32
n(low)=30
Percent survival
Months
L
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.17
HR(high)=1.2
p(HR)=0.17
n(high)=252
n(low)=258
Percent survival
Months

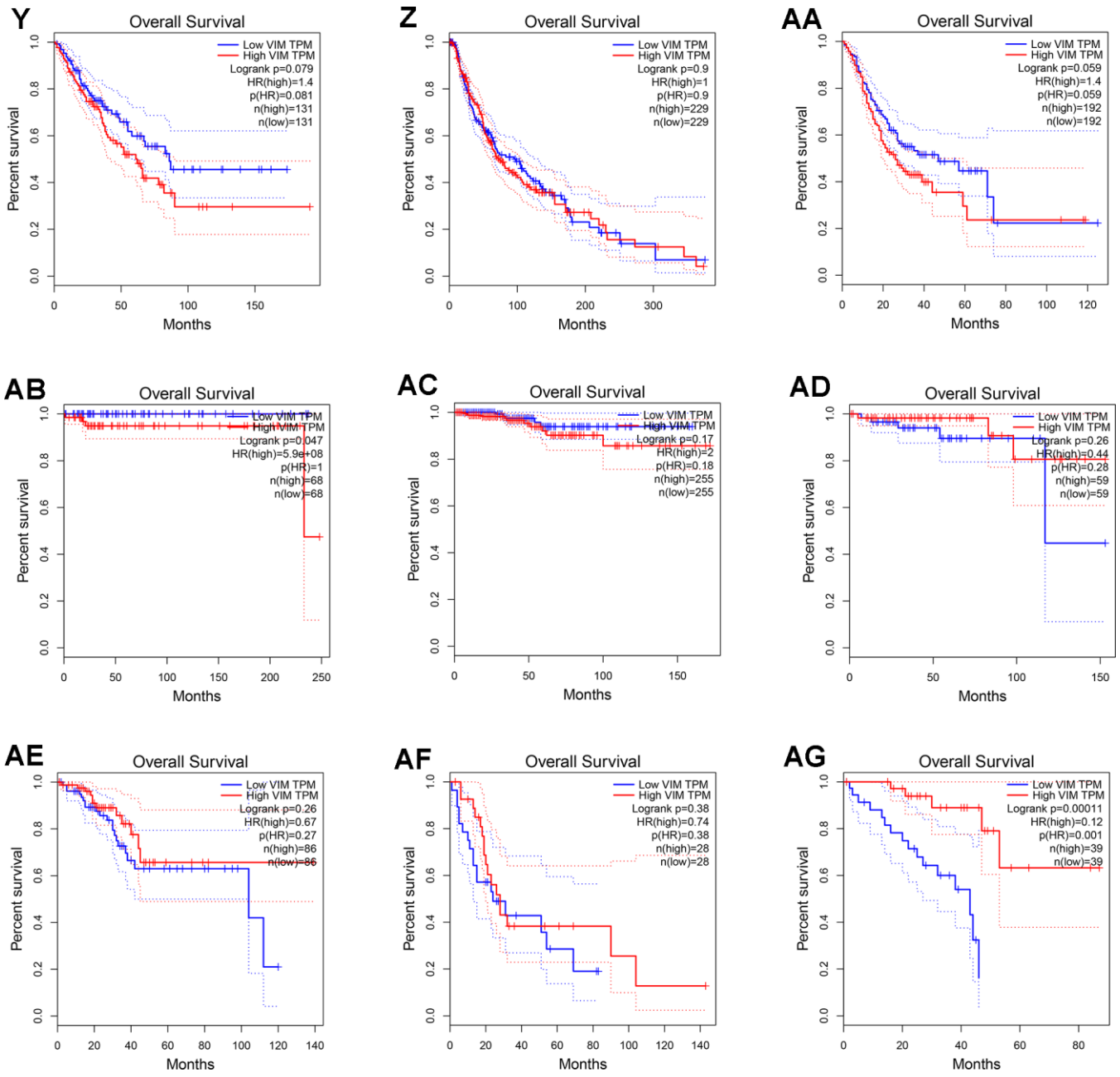

M
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=9e−04
HR(high)=3.1
p(HR)=0.0016
n(high)=133
n(low)=138
Percent survival
Months
N
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.08
HR(high)=0.61
p(HR)=0.085
n(high)=53
n(low)=53
Percent survival
Months
O
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=9.6e−07
HR(high)=2.5
p(HR)=2.1e−06
n(high)=257
n(low)=257
Percent survival
Months
P
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.15
HR(high)=1.3
p(HR)=0.15
n(high)=176
n(low)=172
Percent survival
Months
Q
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.22
HR(high)=1.2
p(HR)=0.22
n(high)=239
n(low)=239
Percent survival
Months
R
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.47
HR(high)=1.1
p(HR)=0.47
n(high)=241
n(low)=241
Percent survival
Months
S
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.00096
HR(high)=2.3
p(HR)=0.0011
n(high)=41
n(low)=41
Percent survival
Months
T
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.37
HR(high)=1.1
p(HR)=0.38
n(high)=212
n(low)=212
Percent survival
Months
U
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.017
HR(high)=1.7
p(HR)=0.018
n(high)=89
n(low)=89
Percent survival
Months
V
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.82
HR(high)=0.83
p(HR)=0.82
n(high)=90
n(low)=90
Percent survival
Months
W
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.54
HR(high)=1.5
p(HR)=0.54
n(high)=246
n(low)=246
Percent survival
Months
X
Overall Survival
Low TWIST1 TPM
High TWIST1 TPM
Logrank p=0.5
HR(high)=0.73
p(HR)=0.51
n(high)=46
n(low)=46
Percent survival
Months



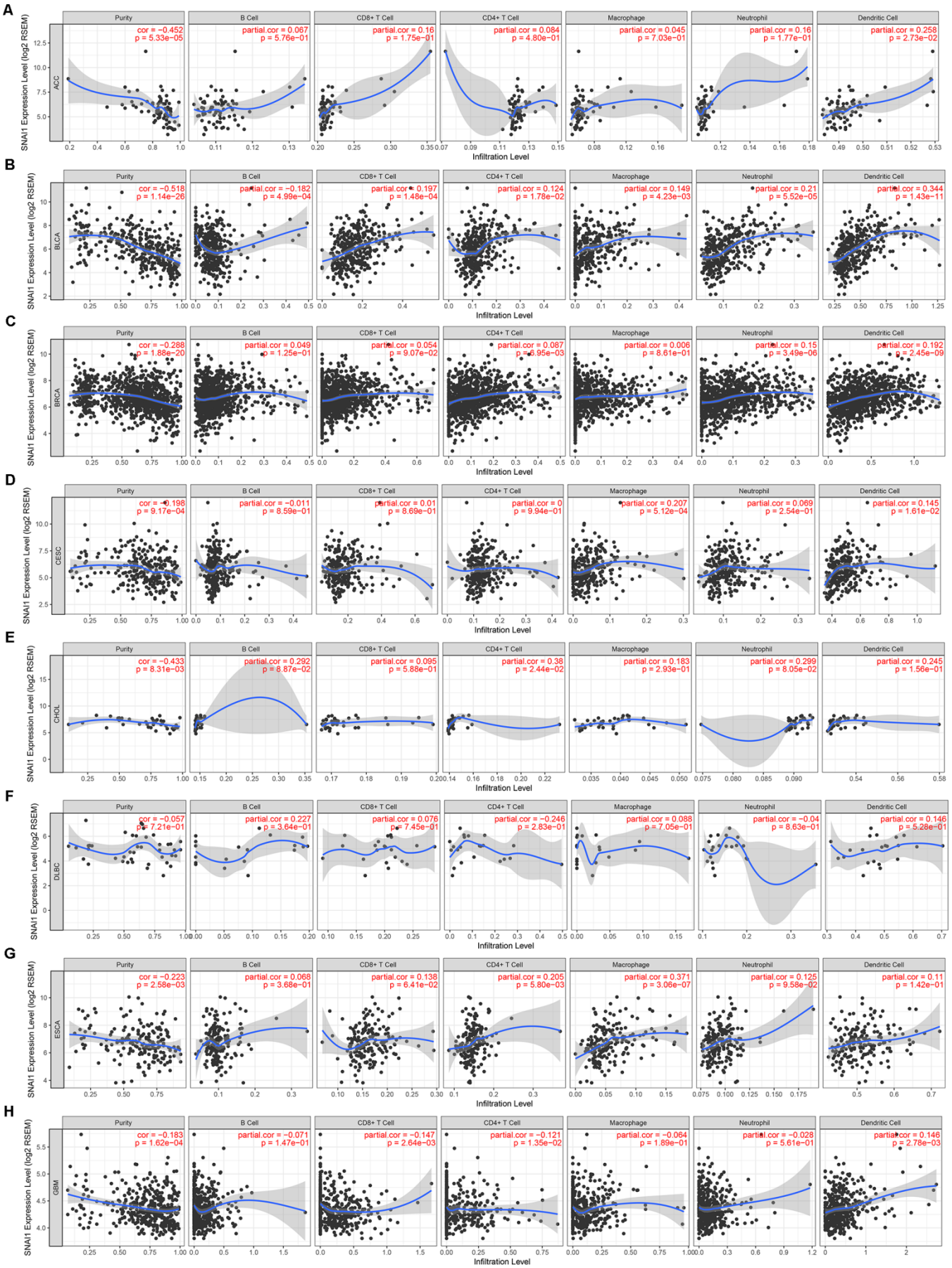
Supplementary Figure 6. Kaplan-Meier survival curves comparing the high and low expression of TWIST1 in different types of human cancers in TCGA dataset.

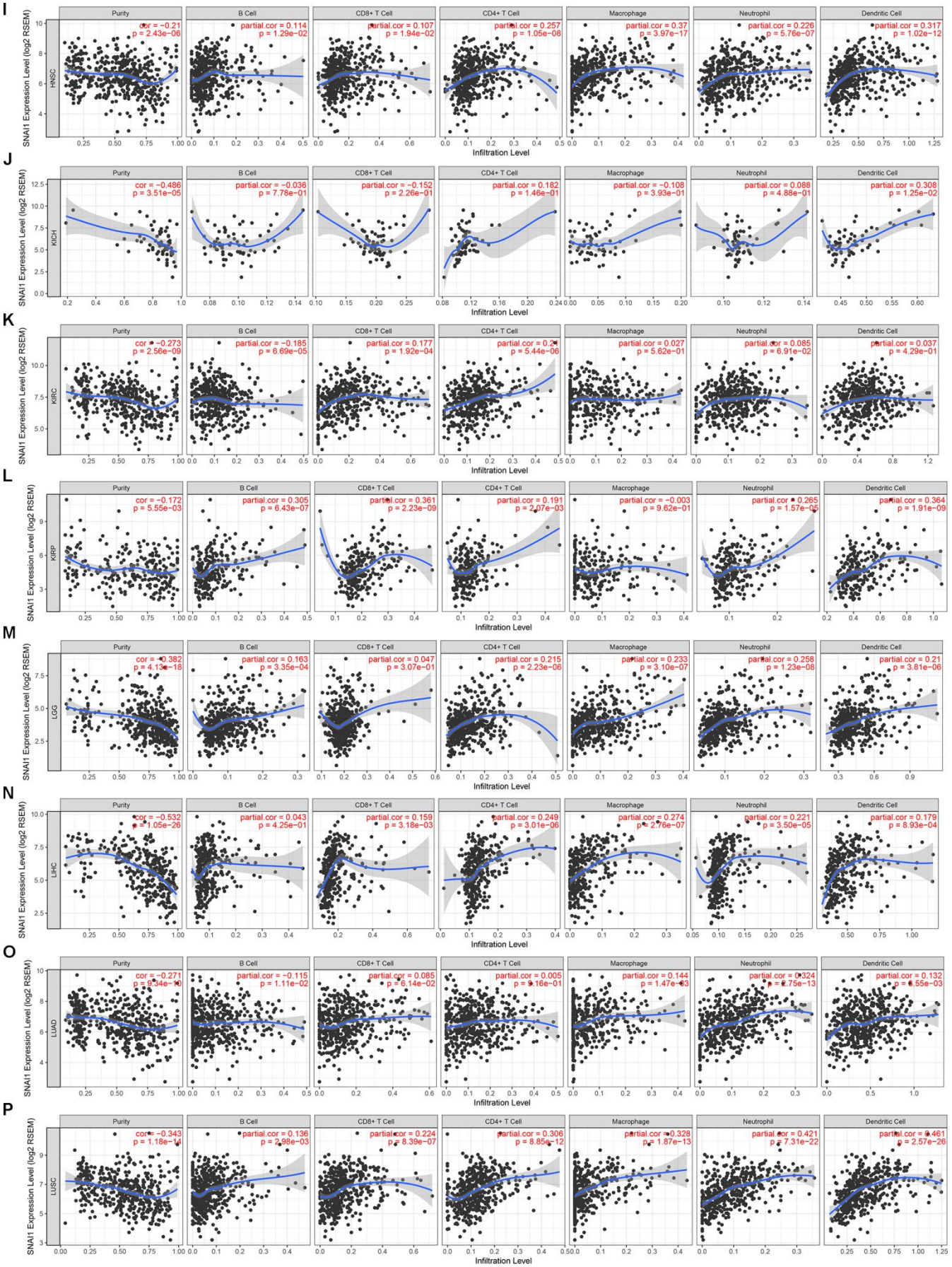

A
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.014
HR(high)=2.7
p(HR)=0.018
n(high)=38
n(low)=38
Percent survival
Months
B
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.14
HR(high)=1.3
p(HR)=0.14
n(high)=201
n(low)=201
Percent survival
Months
C
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.18
HR(high)=0.8
p(HR)=0.18
n(high)=535
n(low)=535
Percent survival
Months
D
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.86
HR(high)=1
p(HR)=0.86
n(high)=146
n(low)=146
Percent survival
Months
E
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.13
HR(high)=0.47
p(HR)=0.14
n(high)=18
n(low)=18
Percent survival
Months
F
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.13
HR(high)=1.4
p(HR)=0.14
n(high)=135
n(low)=135
Percent survival
Months
G
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.68
HR(high)=0.75
p(HR)=0.68
n(high)=23
n(low)=23
Percent survival
Months
H
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.42
HR(high)=0.83
p(HR)=0.42
n(high)=91
n(low)=91
Percent survival
Months
I
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.28
HR(high)=1.2
p(HR)=0.26
n(high)=81
n(low)=81
Percent survival
Months
J
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.97
HR(high)=1
p(HR)=0.97
n(high)=259
n(low)=259
Percent survival
Months
K
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.72
p(HR)=0.72
n(high)=32
n(low)=32
Percent survival
Months
L
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.17
HR(high)=0.81
p(HR)=0.17
n(high)=258
n(low)=258
Percent survival
Months

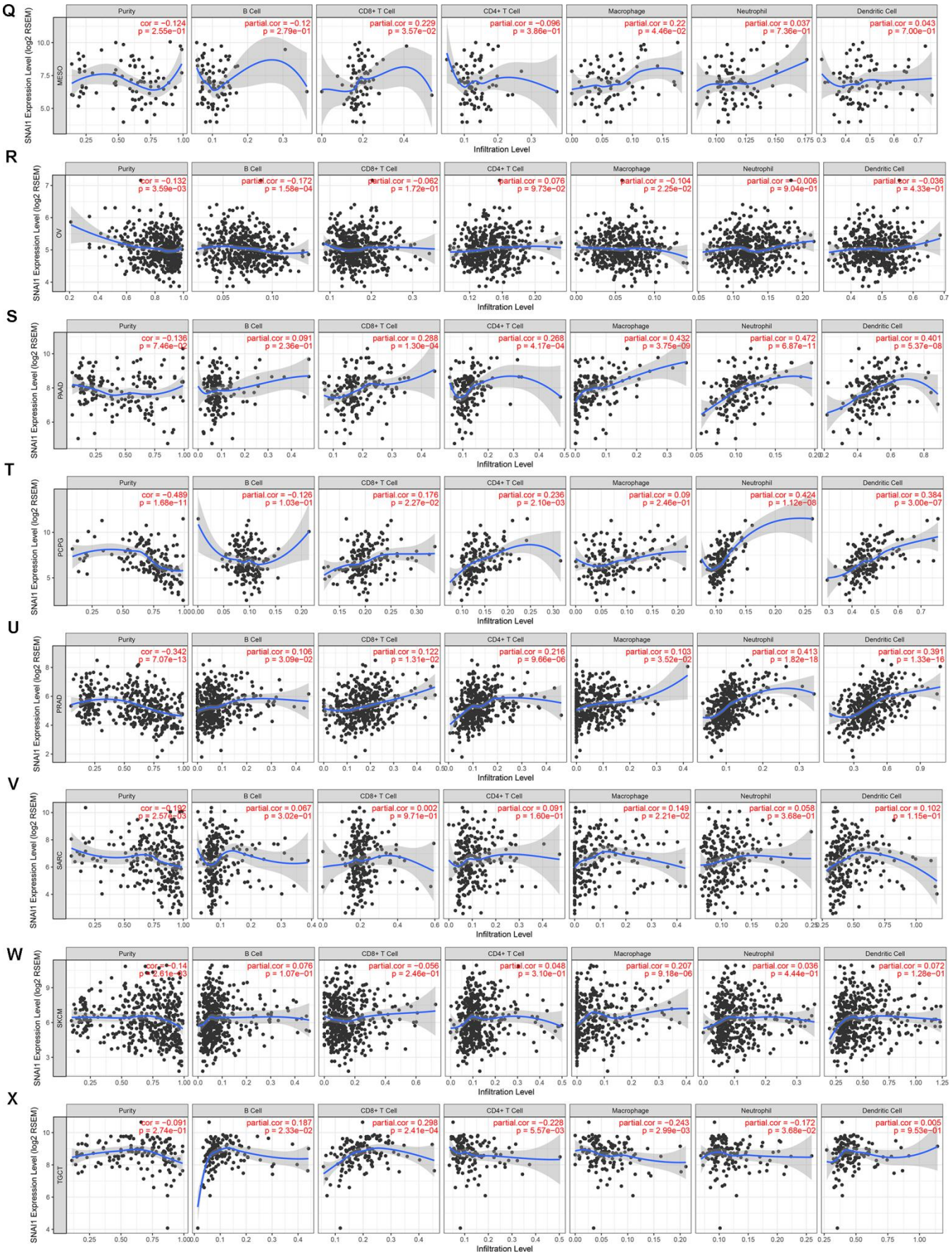

M
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.69
HR(high)=1.1
p(HR)=0.7
n(high)=141
n(low)=141
Percent survival
Months
N
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.69
HR(high)=1.1
p(HR)=0.69
n(high)=53
n(low)=53
Percent survival
Months
O
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=1.2e−05
HR(high)=2.3
p(HR)=2e−05
n(high)=257
n(low)=257
Percent survival
Months
P
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.88
HR(high)=1
p(HR)=0.88
n(high)=182
n(low)=182
Percent survival
Months
Q
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.57
HR(high)=0.92
p(HR)=0.57
n(high)=239
n(low)=239
Percent survival
Months
R
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.27
HR(high)=1.2
p(HR)=0.26
n(high)=241
n(low)=241
Percent survival
Months
S
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.0053
HR(high)=2
p(HR)=0.0056
n(high)=41
n(low)=41
Percent survival
Months
T
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.68
HR(high)=0.95
p(HR)=0.68
n(high)=212
n(low)=212
Percent survival
Months
U
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.56
HR(high)=0.89
p(HR)=0.56
n(high)=89
n(low)=89
Percent survival
Months
V
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.13
HR(high)=0.22
p(HR)=0.16
n(high)=91
n(low)=91
Percent survival
Months
W
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.26
HR(high)=0.46
p(HR)=0.27
n(high)=246
n(low)=246
Percent survival
Months
X
Overall Survival
Low VIM TPM
High VIM TPM
Logrank p=0.71
HR(high)=0.84
p(HR)=0.71
n(high)=46
n(low)=46
Percent survival
Months

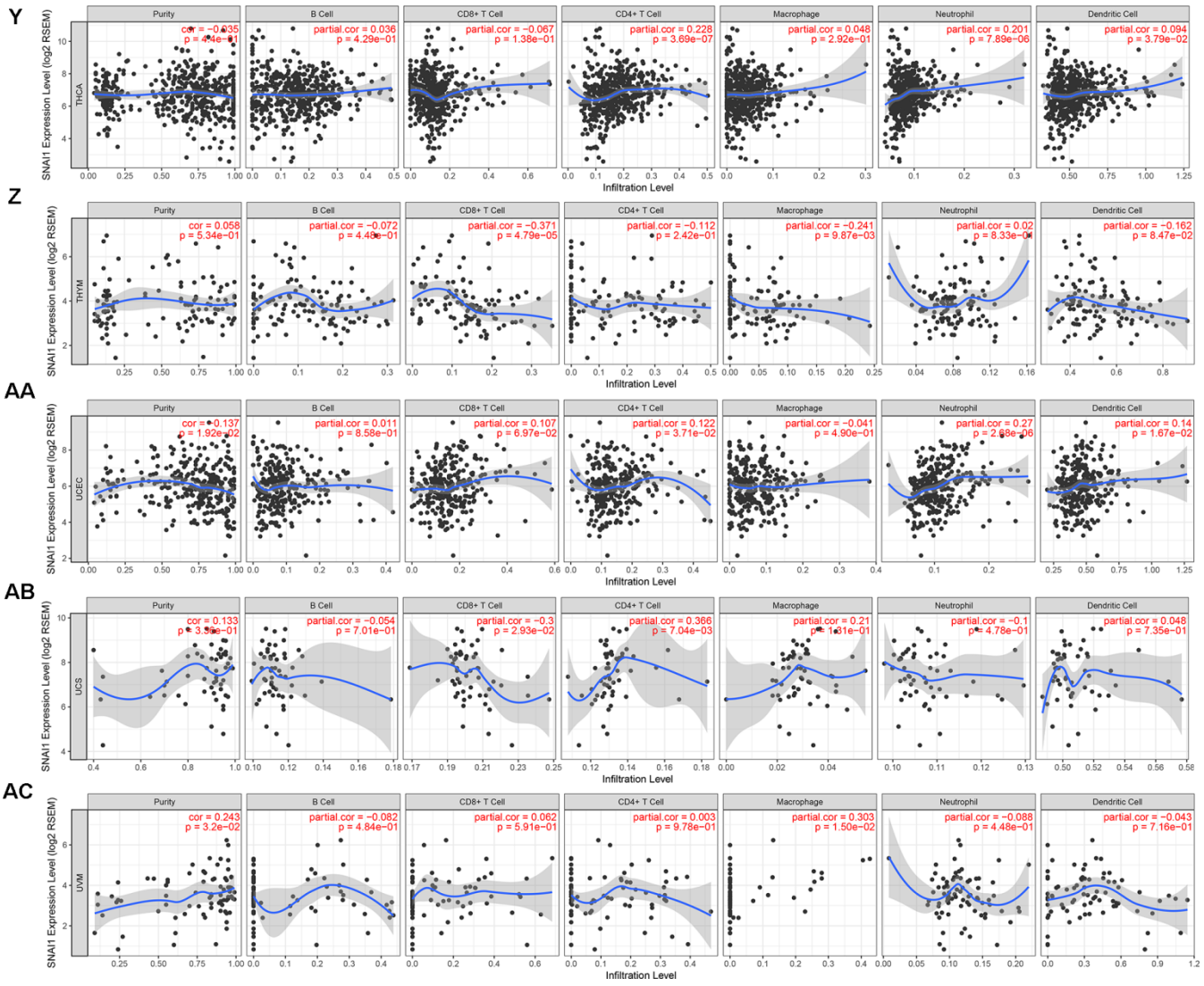


Supplementary Figure 7. Kaplan-Meier survival curves comparing the high and low expression of VIM in different types of human cancers in TCGA dataset.

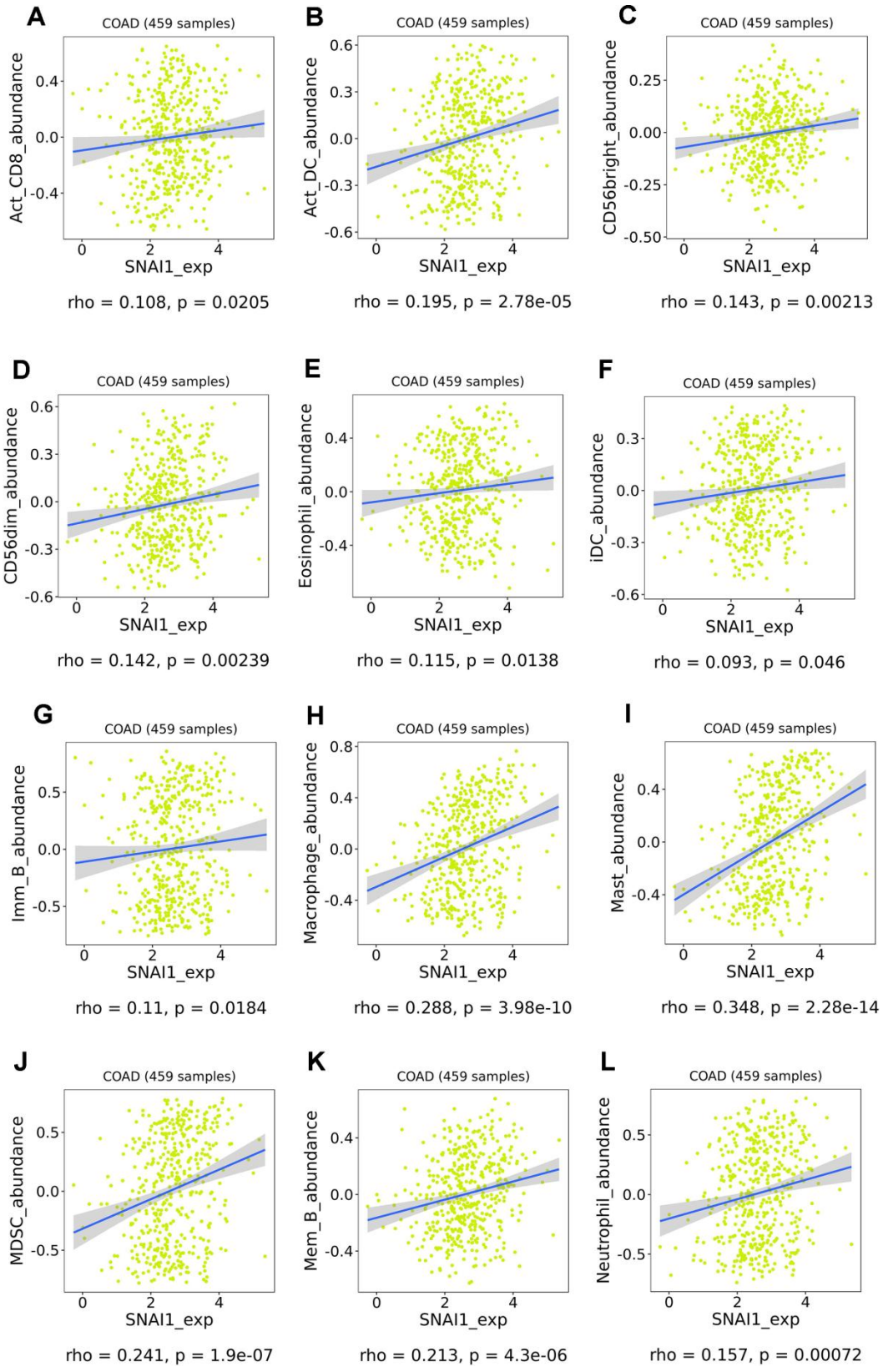

A
Purity
cor = −0.452
p = 5.33e−05
B Cell
partial.cor = 0.067
p = 5.76e−01
CD8+ T Cell
partial.cor = 0.16
p = 1.75e−01
CD4+ T Cell
partial.cor = 0.084
p = 4.80e−01
Macrophage
partial.cor = 0.045
p = 7.03e−01
Neutrophil
partial.cor = 0.16
p = 1.77e−01
Dendritic Cell
partial.cor = 0.258
p = 2.73e−02
ACC
SNAI1 Expression Level (log2 RSEM)
Infiltration Level
B
cor = −0.518
p = 1.14e−26
partial.cor = −0.182
p = 4.99e−04
partial.cor = 0.197
p = 1.48e−04
partial.cor = 0.124
p = 1.78e−02
partial.cor = 0.149
p = 4.23e−03
partial.cor = 0.21
p = 5.52e−05
partial.cor = 0.344
p = 1.43e−11
BLCA
C
cor = −0.288
p = 1.88e−20
partial.cor = 0.049
p = 1.25e−01
partial.cor = 0.054
p = 9.07e−02
partial.cor = 0.087
p = 5.95e−03
partial.cor = 0.006
p = 8.61e−01
partial.cor = 0.15
p = 3.49e−06
partial.cor = 0.192
p = 2.45e−09
BRCA
D
cor = −0.198
p = 9.17e−04
partial.cor = −0.011
p = 8.59e−01
partial.cor = 0.01
p = 8.69e−01
partial.cor = 0
p = 9.94e−01
partial.cor = 0.207
p = 5.12e−04
partial.cor = 0.069
p = 2.54e−01
partial.cor = 0.145
p = 1.61e−02
CESC
E
cor = −0.433
p = 8.31e−03
partial.cor = 0.292
p = 8.87e−02
partial.cor = 0.095
p = 5.88e−01
partial.cor = 0.38
p = 2.44e−02
partial.cor = 0.183
p = 2.93e−01
partial.cor = 0.299
p = 8.05e−02
partial.cor = 0.245
p = 1.56e−01
CHOL
F
cor = −0.057
p = 7.21e−01
partial.cor = 0.227
p = 3.64e−01
partial.cor = 0.076
p = 7.45e−01
partial.cor = −0.246
p = 2.83e−01
partial.cor = 0.088
p = 7.05e−01
partial.cor = −0.04
p = 8.63e−01
partial.cor = 0.146
p = 5.28e−01
DLBC
G
cor = −0.223
p = 2.58e−03
partial.cor = 0.068
p = 3.68e−01
partial.cor = 0.138
p = 6.41e−02
partial.cor = 0.205
p = 5.80e−03
partial.cor = 0.371
p = 3.06e−07
partial.cor = 0.125
p = 9.58e−02
partial.cor = 0.11
p = 1.42e−01
ESCA
H
cor = −0.183
p = 1.62e−04
partial.cor = −0.071
p = 1.47e−01
partial.cor = −0.147
p = 2.64e−03
partial.cor = −0.121
p = 1.35e−02
partial.cor = −0.064
p = 1.89e−01
partial.cor = −0.028
p = 5.61e−01
partial.cor = 0.146
p = 2.78e−03
GBM

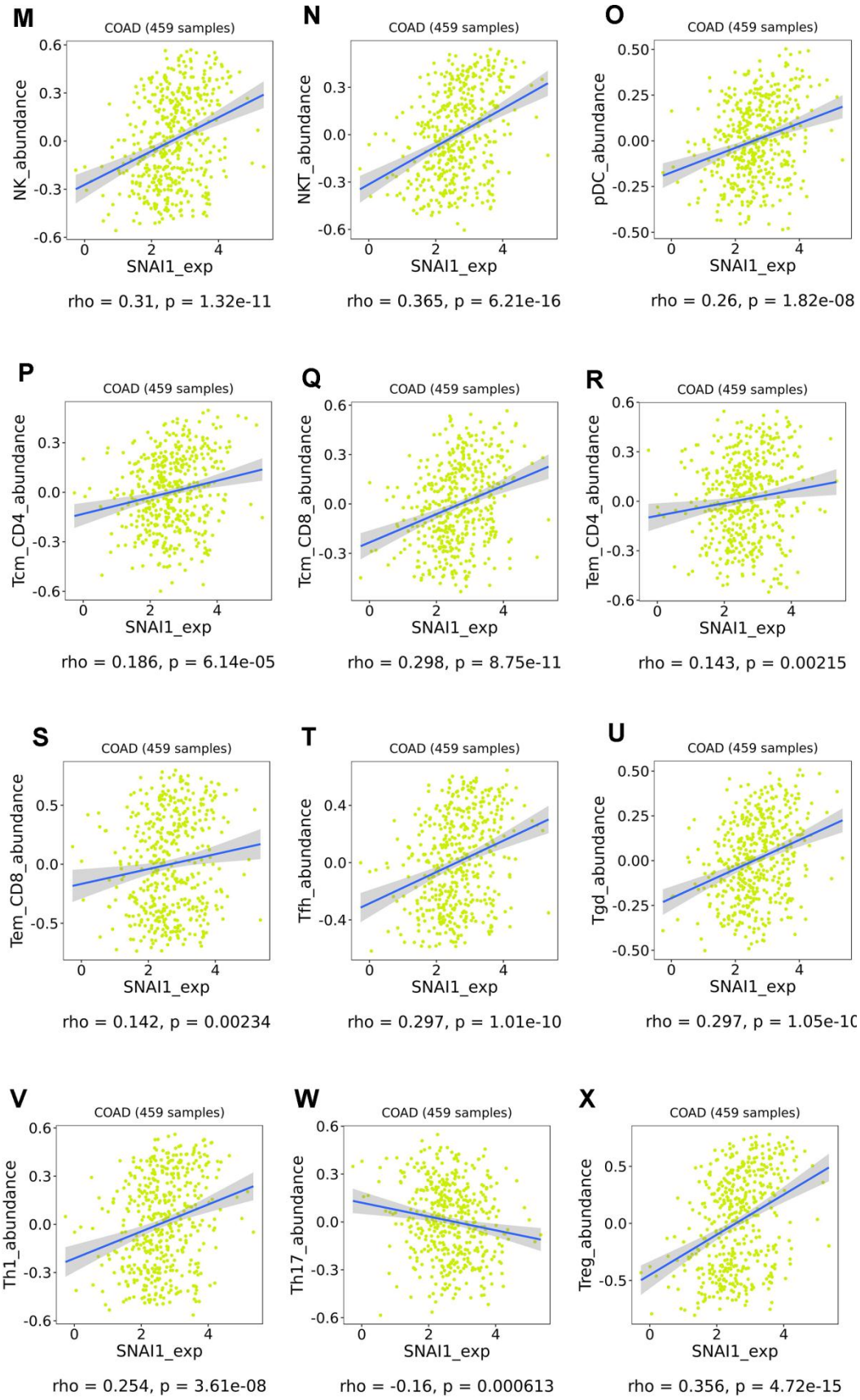

I
Purity
B Cell
CD8+ T Cell
CD4+ T Cell
Macrophage
Neutrophil
Dendritic Cell
cor = −0.21
p = 2.43e−06
partial.cor = 0.114
p = 1.29e−02
partial.cor = 0.107
p = 1.94e−02
partial.cor = 0.257
p = 1.05e−08
partial.cor = 0.37
p = 3.97e−17
partial.cor = 0.226
p = 5.76e−07
partial.cor = 0.317
p = 1.02e−12
HNSC
SNAI1 Expression Level (log2 RSEM)
Infiltration Level
J
cor = −0.486
p = 3.51e−05
partial.cor = −0.036
p = 7.78e−01
partial.cor = −0.152
p = 2.26e−01
partial.cor = 0.182
p = 1.46e−01
partial.cor = −0.108
p = 3.93e−01
partial.cor = 0.088
p = 4.88e−01
partial.cor = 0.308
p = 1.25e−02
KICH
K
cor = −0.273
p = 2.56e−09
partial.cor = −0.185
p = 6.69e−05
partial.cor = 0.177
p = 1.92e−04
partial.cor = 0.27
p = 5.44e−06
partial.cor = 0.027
p = 5.62e−01
partial.cor = 0.085
p = 6.91e−02
partial.cor = 0.037
p = 4.29e−01
KIRC
L
cor = −0.172
p = 5.55e−03
partial.cor = 0.305
p = 6.43e−07
partial.cor = 0.361
p = 2.23e−09
partial.cor = 0.191
p = 2.07e−03
partial.cor = −0.003
p = 9.62e−01
partial.cor = 0.265
p = 1.57e−05
partial.cor = 0.364
p = 1.91e−09
KIRP
M
cor = −0.382
p = 4.13e−18
partial.cor = 0.163
p = 3.35e−04
partial.cor = 0.047
p = 3.07e−01
partial.cor = 0.215
p = 2.23e−06
partial.cor = 0.233
p = 3.10e−07
partial.cor = 0.258
p = 1.23e−08
partial.cor = 0.21
p = 3.81e−06
LGG
N
cor = −0.532
p = 1.05e−26
partial.cor = 0.043
p = 4.25e−01
partial.cor = 0.159
p = 3.18e−03
partial.cor = 0.249
p = 3.01e−06
partial.cor = 0.274
p = 2.76e−07
partial.cor = 0.221
p = 3.50e−05
partial.cor = 0.179
p = 8.93e−04
LIHC
O
cor = −0.271
p = 9.34e−10
partial.cor = −0.115
p = 1.11e−02
partial.cor = 0.085
p = 6.14e−02
partial.cor = 0.005
p = 9.16e−01
partial.cor = 0.144
p = 1.47e−03
partial.cor = 0.324
p = 6.75e−13
partial.cor = 0.132
p = 6.55e−03
LUAD
P
cor = −0.343
p = 1.18e−14
partial.cor = 0.136
p = 2.98e−03
partial.cor = 0.224
p = 8.39e−07
partial.cor = 0.306
p = 8.85e−12
partial.cor = −0.328
p = 1.87e−13
partial.cor = 0.421
p = 7.31e−22
partial.cor = 0.461
p = 2.57e−26
LUSC


Q
R
S
T
U
V
W
X
Purity
B Cell
CD8+ T Cell
CD4+ T Cell
Macrophage
Neutrophil
Dendritic Cell
SNAI1 Expression Level (log2 RSEM)
Infiltration Level
MESO
OV
PAAD
PCPG
PRAD
SARC
SKCM
TGCT



Supplementary Figure 8. Correlation of SNAI1 expression with tumor-infiltrating lymphocytes in different types of human cancers in TCGA dataset.


A
COAD (459 samples)
Act_CD8_abundance
SNAI1_exp
rho = 0.108, p = 0.0205
B
COAD (459 samples)
Act_DC_abundance
SNAI1_exp
rho = 0.195, p = 2.78e-05
C
COAD (459 samples)
CD56bright_abundance
SNAI1_exp
rho = 0.143, p = 0.00213
D
COAD (459 samples)
CD56dim_abundance
SNAI1_exp
rho = 0.142, p = 0.00239
E
COAD (459 samples)
Eosinophil_abundance
SNAI1_exp
rho = 0.115, p = 0.0138
F
COAD (459 samples)
iDC_abundance
SNAI1_exp
rho = 0.093, p = 0.046
G
COAD (459 samples)
Imm_B_abundance
SNAI1_exp
rho = 0.11, p = 0.0184
H
COAD (459 samples)
Macrophage_abundance
SNAI1_exp
rho = 0.288, p = 3.98e-10
I
COAD (459 samples)
Mast_abundance
SNAI1_exp
rho = 0.348, p = 2.28e-14
J
COAD (459 samples)
MDSC_abundance
SNAI1_exp
rho = 0.241, p = 1.9e-07
K
COAD (459 samples)
Mem_B_abundance
SNAI1_exp
rho = 0.213, p = 4.3e-06
L
COAD (459 samples)
Neutrophil_abundance
SNAI1_exp
rho = 0.157, p = 0.00072



Supplementary Figure 9. Correlation of SNAI1 expression with 28 TILs in different types of human cancers in TCGA dataset.