**Supplementary Table 1**. The sequences of genes in our study.

|  |  |  |
| --- | --- | --- |
| Gene | Primer | Sequences (5’- 3’) |
| RIPK4 | F | GCCCACTACCACGTCAAGAT |
|  | R | TTCACCATGATGTGCAGGAT |
| E-cadherin | F | AGTCACTGACACCAACGATAAT |
|  | R | ATCGTTGTTCACTGGATTTGTG |
| N-cadherin | F | CGATAAGGATCAACCCCATACA |
|  | R | TTCAAAGTCGATTGGTTTGACC |
| Vimentin | F | AGTCCACTGAGTACCGGAGAC |
|  | R | CATTTCACGCATCTGGCGTTC |
| Twist | F | GTACATCGACTTCCTCTACCAG |
|  | R | CATCCTCCAGACCGAGAAG |
| GAPDH | F | CAGGAGGCATTGCTGATGAT |
|  | R | GAAGGCTGGGGCTCATTT |
| siRIPK4 | F | GCACGAUAUACAGCUUUTT |
|  | R | AAAGCUGUAUACAUCGUGCTT |
| siNC | F | UUCUCCGAACGUACGUTT |
|  | R | ACGUGACACGUUCGGAATT |

|  |  |  |  |
| --- | --- | --- | --- |
| Antibody | Manufacturer | Western blot | Immunofluorescence |
| RIPK4 | H00054101-M01, Anova, China | 1:2,000 | 1:200 |
| E-cadherin | 3195T, Cell Signaling Technology, USA | 1:1,000 | 1:400 |
| N-cadherin | ab98952, Abcam, USA | 1:5,000 | 1:400 |
| Vimentin | ab8069, Abcam, USA | 1:10,000 |  |
| Twist | ab50887, Abcam, USA | 1:1,000 |  |
| GAPDH | ab9484, Abcam, USA | 1:10,000 |  |
| Rabbit/Mouse second antibody | Thermo Fisher Scientific, USA | 1:10,000 |  |
| Alexa Fluor ® 488 AffiniPure Goat Anti-Rabbit/Mouse lgG(H+L) | Yeason, China | 1:400 |  |

**Supplementary Table 2**. The antibodies used in our study.