

Critical function of the necroptosis adaptor RIPK3 in protecting from intestinal tumorigenesis

SUPPLEMENTARY TABLES

Supplementary Table S1: Statistical analysis of RIPK3 expression in CRC in eight different microarray databases and from various anatomical localizations

| Database/cancer type | Cancer vs. Normal | |
|-----------------------------|-------------------|---------|
| | Fold change | p value |
| Skrzypczak CRC1 | | |
| - Colorectal Adenocarcinoma | -1.502 | 1.3E-07 |
| Skrzypczak CRC2 | | |
| - Colorectal Adenocarcinoma | -1.791 | 5.1E-10 |
| Sabates Belver colon | | |
| - Colon Adenocarcinoma | -1.142 | 4.7E-02 |
| - Rectum Adenocarcinoma | -1.264 | 2.5E-02 |
| Ki Colon | | |
| - Colon Adenocarcinoma | 1.076 | 7.4E-02 |
| Gaedcke CRC | | |
| - Rectum Adenocarcinoma | -1.816 | 9.1E-19 |
| Hong CRC | | |
| - Colorectal Adenocarcinoma | -1.793 | 4.8E-07 |
| Kaiser CRC | | |
| - Cecum Adenocarcinoma | -1.495 | 8.6E-04 |
| - Colon Adenocarcinoma | -1.539 | 1.4E-03 |
| - Rectum Adenocarcinoma | -1.558 | 7.9E-04 |
| TCGA CRC | | |
| - Cecum Adenocarcinoma | -1.695 | 7.2E-05 |
| - Colon Adenocarcinoma | -1.636 | 1.5E-05 |
| - Rectum Adenocarcinoma | -1.586 | 5.1E-05 |

Supplementary Table S2: Primer sequences used for real time qPCR analysis

| Gene | Specie | Primer forward (5' - 3') | Primer reverse (5' - 3') |
|------------------|--------|--------------------------|--------------------------|
| <i>Ripk3</i> | human | TTTGGCCTGTCCACATTTTCAG | GGTTGGCAACTCAACTTCTCTT |
| <i>Ll32</i> | human | TGTCCTGAATGTGGTCACCTGA | CTGCAGTCTCCTTGCACACCT |
| <i>Ll32</i> | mouse | GAAACTGGCGGAAACCCA | GGATCTGGCCCTTGAACCTT |
| <i>Tnfa</i> | mouse | CATCTTCTCAAATTCGAGTGACAA | TGGGAGTAGACAAGGTACAACCC |
| <i>Il6</i> | mouse | CTGCAAGAGACTTCCATCCAGTT | GAAGTAGGGAAGGCCGTGG |
| <i>Il1β</i> | mouse | CGGCACACCCACCCTG | AAACCGCTTTTCCATCTTCTTCT |
| <i>Il11</i> | mouse | CTGCACAGATGAGAGACAAATTCC | GAAGCTGCAAAGATCCCAATG |
| <i>Ifng</i> | mouse | AGCTCATCCGAGTGGTCCAC | GCTTCTGAGGCTGGATTCC |
| <i>Ccl2</i> | mouse | GCTGGAGCATCCACGTGTT | ATCTTGCTGGTGAATGAGTAGCA |
| <i>Cxcl1</i> | mouse | AATGAGCTGCGCTGTCAGTG | TGAGGGCAACACCTTCAAGC |
| <i>Cxcl2</i> | mouse | CCTGCCAAGGGTTGACTTCA | TTCTGTCTGGGCGCAGTG |
| <i>S100a9</i> | mouse | GGTGGAAGCACAGTTGGCA | GTGTCCAGGTCCTCCATGATG |
| <i>Ereg</i> | mouse | CACCGAGAAAGAAGGATGGA | GATTCTCCTGGGATGCATGA |
| <i>Mmp10</i> | mouse | CACAAGCCCAGCTAACTTCC | TTTGTCTGGGGTCTCAGGTC |
| <i>Cox2</i> | mouse | TGAGCACAGGATTTGACCAG | CCTTGAAGTGGGTCAGGATG |
| <i>Hif1a</i> | mouse | TGCTCATCAGTTGCCACTTC | CCATCTGTGCCTTCATCTCA |
| <i>Ido</i> | mouse | CTGCCTGTGCTGATTGAGAA | CCTTTCGAACATCGTCATCC |
| <i>Wnt5a</i> | mouse | GGTGCCATGTCTTCCAAGTT | TGAGAAAGTCCTGCCAGTTG |
| <i>Wisp1</i> | mouse | CAGATGGCTGTGAATGCTGT | AAGGACTCGCCATTGGTGTA |
| <i>cMyc</i> | mouse | TCTCCACTCACCAGCACAACTACG | ATCTGCTTCAGGACCCT |
| <i>Cyclin D1</i> | mouse | CCCTGACACCAATCTCCTCAAC | GCATGGATGGCACAATCTCCT |
| <i>Cyclin E</i> | mouse | ATGTGGCCGTGTTTTGCA | GGTCTGATTTTCCGAGGCTGA |
| <i>Cyclin B1</i> | mouse | ACTTCAGCCTGGGTCGCC | ACGTCAACCTCTCCGACTTTAGA |
| <i>Bclxl</i> | mouse | GGTCGCATCGTGGCCTTT | TCCGACTCACCAATACCTGCAT |
| <i>p21</i> | mouse | ATTCAGAGCCACAGGCACCAT | TCTCCGTGACGAAGTCAAAGTT |