Supporting Information

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SI Methods

The PCR array data provided by Qiagen regarding the primers used for the *TACR1* transcripts in the array are as follows:

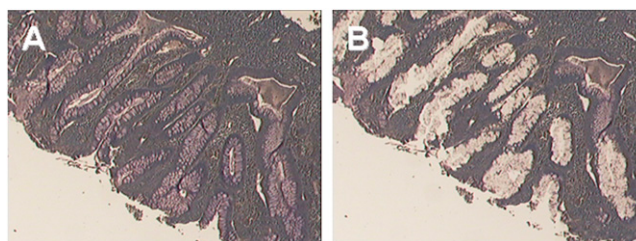| Transcript	RefSeq	Catalog no.	Amplicon size	Reference position
fl-*TACR1*	NM_001058	PPH68645A	58	4264–4285
tr-*TACR1*	NM_015727	PPH68646A	80	1581–1604

Fig. S1. Colonic epithelium stained with Paradise Plus stain before (*A*) and after (*B*) microdissection by laser capture microscopy showing selective removal of epithelium.
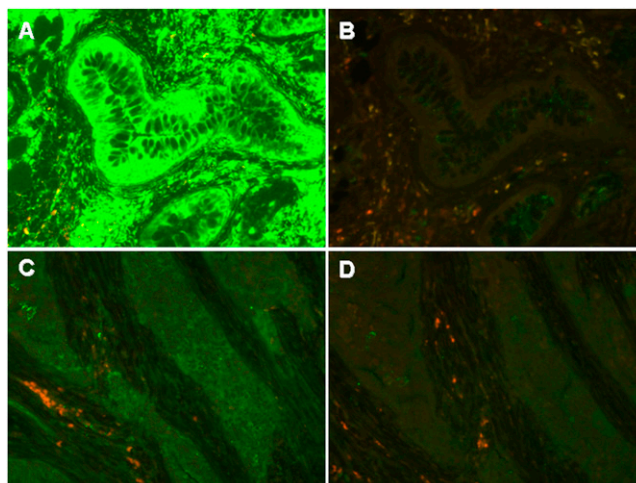

Fig. S2. Specificity of the two NK-1R antibodies: fluorescent microscopy images showing the antibodies binding to human colon carcinoma tissue with and without preincubation with blocking peptides. Antibody targeting the internal epitope of NK-1R binds colon sections without (*A*) but not with (*B*) pre-incubation with blocking peptide. Antibody targeting the C-terminal epitope of NK-1R binds colon sections without (*C*) but not with (*D*) blocking peptide. Exposure time = 500 ms. Orange tissue autofluorescence is evident in some sections and does not represent binding.

Table S1. PCR array genes that did not show significant changes among groups, with fold changes and *P* values

Gene	QC vs. HGD		QC vs. CA		HGD vs. CA	
	Fold change	*P* value	Fold change	*P* value	Fold change	*P* value
ALOX5	0.85	0.88	2.00	0.37	2.36	0.44
BAD	NA		NA		NA	
BCL2	0.44	0.26	0.52	0.35	1.18	0.80
BCL2L1	0.56	0.11	1.28	0.51	2.30	0.07
CAT	0.60	0.37	0.91	0.83	1.52	0.23
CCL2	1.77	0.49	4.11	0.26	2.33	0.42
CCNB1	1.43	0.71	2.27	0.35	1.58	0.63
CCND1	NA		NA		NA	
CD44	NA		NA		NA	
CD74	2.60	0.30	2.68	0.45	1.03	0.98
CDH1	1.65	0.51	3.16	0.45	1.92	0.58
CDKN1A	0.68	0.31	0.99	0.98	1.45	0.49
CHUK	0.99	0.99	2.71	0.31	2.75	0.13
CXCL10	0.34	0.29	0.47	0.06	1.36	0.70
CXCL12	0.37	0.06	0.79	0.68	2.14	0.30
CXCR4	1.79	0.64	1.49	0.64	0.84	0.84
CYP24A1	NA		NA		NA	
CYP27B1	0.34	0.32	1.97	0.66	5.82	0.16
EGFR	6.59	0.19	2.36	0.46	0.36	0.42
EPAS1	NA		NA		NA	
EPCAM	1.47	0.79	0.93	0.97	0.63	0.64
GPX1	NA		NA		NA	
HIF1A	2.64	0.29	3.73	0.19	1.41	0.77
ICAM1	0.55	0.43	1.12	0.87	2.03	0.53
IGF1	0.33	0.23	0.51	0.41	1.56	0.49
IKBKB	0.55	0.30	1.39	0.73	2.53	0.30
IKBKE	0.38	0.36	1.65	0.35	4.35	0.20
IL1B	0.51	0.28	0.50	0.37	0.97	0.97
IL2	0.22	0.16	0.58	0.44	2.60	0.50
IL6	0.30	0.37	1.13	0.92	3.73	0.34
IL6R	0.33	0.07	0.34	0.13	1.06	0.93
IL8	0.86	0.85	1.36	0.76	1.58	0.35
IL8RA	NA		NA		NA	
IL8RB	NA		NA		NA	
MCL1	2.33	0.53	0.56	0.78	0.24	0.46
MIF	1.45	0.56	2.46	0.22	1.69	0.51
MMP1	NA		NA		NA	
MMP13	2.39	0.47	4.35	0.24	1.82	0.49
MMP2	0.71	0.44	1.92	0.34	2.71	0.20
MMP7	1.04	0.92	8.46	0.26	8.11	0.26
MMP9	1.65	0.37	3.12	0.14	1.89	0.46
MSH2	2.36	0.35	4.66	0.14	1.97	0.47
NFKB1	NA		NA		NA	
NFKBIA	2.08	0.21	6.32	0.12	3.03	0.14
NOS2	1.09	0.93	0.93	0.94	0.86	0.86
PDGFA	2.08	0.59	4.06	0.29	1.95	0.57
PDGFB	1.65	0.08	5.13	0.10	3.12	0.19
PDGFRA	0.46	0.18	0.71	0.79	1.54	0.67
PDGFRB	NA		NA		NA	
PTGS2	4.66	0.39	8.94	0.09	1.92	0.64
RAF1	NA		NA		1.36	0.72
RELA	1.39	0.38	1.07	0.95	0.77	0.80
RELB	0.28	0.09	0.51	0.44	1.82	0.26
SELL	NA		NA		NA	
SMAD2	1.07	0.94	3.94	0.48	3.68	0.25
SMAD4	NA		NA		NA	
SOD1	1.82	0.39	1.03	0.99	0.57	0.70
SOD2	9.45	0.10	13.93	0.09	1.47	0.36
STAT3	2.36	0.25	6.68	0.08	2.83	0.22
TAC1	NA		NA		NA	

Table S1.   Cont.

Gene	QC vs. HGD		QC vs. CA		HGD vs. CA	
	Fold change	*P* value	Fold change	*P* value	Fold change	*P* value
TGFB1	2.17	0.34	1.21	0.80	0.56	0.64
TGFBR1	NA		NA		NA	
TGFBR2	0.66	0.60	1.79	0.26	2.71	0.38
TGFBR3	0.76	0.47	1.56	0.53	2.06	0.33
THBS1	3.29	0.25	5.50	0.10	1.67	0.36
TLR2	0.42	0.46	2.36	0.27	5.58	0.15
TLR4	1.20	0.72	1.69	0.72	1.41	0.75
TNF	0.62	0.39	2.08	0.40	3.34	0.11
TP53	NA		NA		NA	
TWIST1	NA		NA		NA	
VDR	0.66	0.47	1.13	0.86	1.72	0.19

NA, not applicable. Several wells did not amplify and we were therefore unable to quantitate PCR data.