Supplementary Material

Supplement Figure 1 Pooled analysis of TBK1 in CRC and normal tissues across

14 datasets.

Comparison of TBK1 Across 14 Analyses

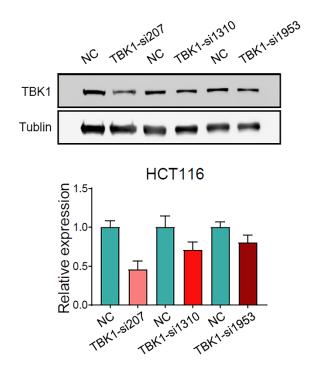
Over-expression / Copy Number Gain

3710.5	0.006	TBK1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Legend			1	-	5	-	2	Ū	1	0	5	10			1.5	1-1
1. Colorectal Normal Gaspar Col	Adenoma E on, Am J Po									carc ctal						
2. Colorectal Hong Color 2010	Carcinoma ectal, Clin			isis,		T	orm CGA	al		ous l ctal						
	3. Colon Adenoma vs. Normal Sabates-Bellver Colon, Mol Cancer Res, 2007			;,	2011 10. Rectal Adenocarcinoma vs. Normal TCGA Colorectal, No Associated Paper 2011											
Sabates-Be 2007	 Rectal Adenoma vs. Normal Sabates-Bellver Colon, Mol Cancer Res, 2007 Colorectal Adenocarcinoma vs. Normal Skrzypczak Colorectal, PLoS One, 2010 Colorectal Carcinoma vs. Normal 					 2011 11. Cecum Adenocarcinoma vs. Normal TCGA Colorectal 2, No Associated Pap 2011 										
Skrzypczak					-	12. Colon Adenocarcinoma vs. Normal TCGA Colorectal 2, No Associated Pap										
Skrzypczak	Colorectal	l, PLoS One, 2010				2011										
7. Cecum Adenocarcinoma vs. Normal TCGA Colorectal, No Associated Paper, 2011			 Colon Mucinous Adenocarcinoma vs. Normal TCGA Colorectal 2, No Associated Pap 2011 													
						T	orm	al		nou ctal						

Not measured

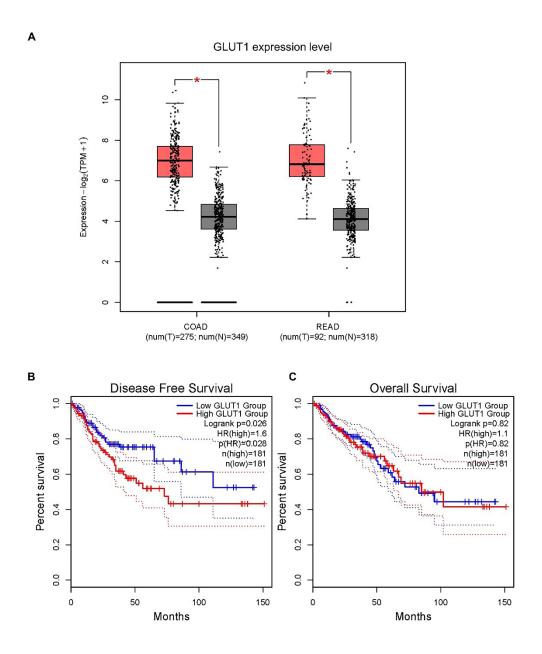
The rank for a gene is the median rank for that gene across each of the analyses. The p-Value for a gene is its p-Value for the median-ranked analysis.

Supplement Figure 2 Efficiency analyses of TBK1-targeted siRNA (NC-siRNA, TBK1-si207, TBK1-si1310 and TBK1-si1953, 20 nM). The relative expression of TBK1 was quantified.

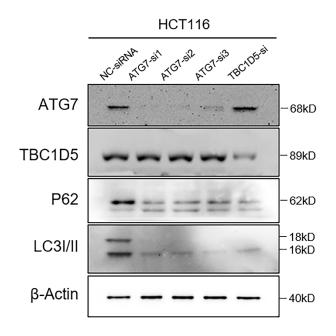


Supplement Figure 3 HCT116 and SW480 were treated with rapamycin (5 μ M) for 12 h, the lysis was blotted for P62, LC3I/II and β -Actin.

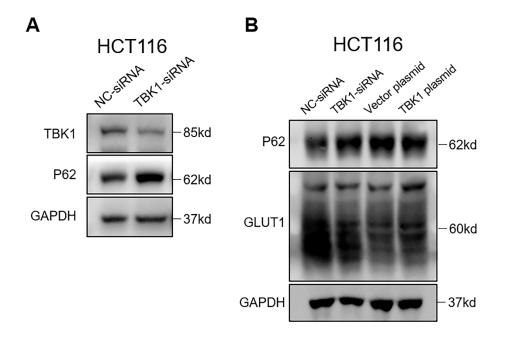
HCT116 SW480 DMSO + - + -Rapamycin - + - + P62 - - 62kD LC3I/II - 62kD - 18kD - 16kD β-Actin - 40kD **Supplement Figure 4** Expression of GLUT1 between normal and carcinoma tissues and the OS and DFS survival curves of CRC patients with high or low GLUT1 expression based on the TCGA database are shown. *P < 0.05, **P < 0.01, ***P < 0.001.



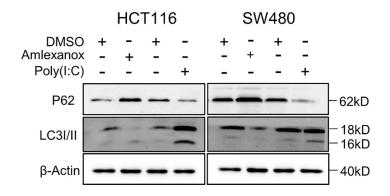
Supplement Figure 5 HCT116 were transfected with NC-siRNA, ATG-siRNA1, ATG-siRNA2, ATG-siRNA3 and TBC1D5-siRNA, the lysis were blotted for ATG7, TBC1D5, P62, LC3I/II and β -Actin.



Supplement Figure 6 (A) HCT116 was transfected with NC-siRNA and TBK1-siRNA, TBK1, P62 and GAPDH were blotted. (B) HCT116 cells were transfected with NC-siRNA, TBK1-siRNA, vector plasmid and TBK1^{WT} plasmid as indicated. WB analysis of P62, GLUT1 and GAPDH from whole-cell lysates.



Supplement Figure 7 HCT116 and SW480 cells were treated with Amlexanox (100 μ M) or poly (I:C) (2 μ g/ml) for 24 h, and the lysates were blotted for P62, LC3I/II, GAPDH.



NC	Sense:	Sense:						
	5'- UUCUCCGAACGUGUCACGUTT	5'- ACGUGACACGUUCGGAGAATT						
	-3'	-3'						
FAM NC	Sense:	Sense:						
	5'- UUCUCCGAACGUGUCACGUTT	5'- ACGUGACACGUUCGGAGAATT						
	-3'	-3'						
TBK1-homo-247	Sense:	Sense:						
	5'- CCAAGGAGCUACUGCAAAUTT	5'- AUUUGCAGUAGCUCCUUGGTT						
	-3'	-3'						
TBK1-homo-1310	Sense:	Sense:						
	5'- GGGAACCUCUGAAUACCAUTT	5'- AUGGUAUUCAGAGGUUCCCTT						
	-3'	-3'						
TBK1-homo-1953	Sense:	Antisense:						
	5'-GACGCACUUUACAGAUGAATT-3'	5'-UUCAUCUGUAAAGUGCGUCTT-3'						

Supplement Table 1. siRNA sequences applied in the study

Supplement Table 2. Primer sequences applied in the study

GLUT1	F: 5'-GGCCAAGAGTGTGCTAAAGAA-3'	R: 5'- ACAGCGTTGATGCCAGACAG-3'
mTOR	F: 5'-TCCGAGAGATGAGTCAAGAGG-3'	R: 5'-CACCTTCCACTCCTATGAGGC-3'
S6K1	F: 5'-AGAACTTCTGGCTCGAAAGGT-3'	R: 5'-CGACAGGTGTCTGACGTGTAA-3'
Raptor	F: 5'-AATGCTGCAATCGCCTCTTCT-3'	R:5'-CCAAAGGTAGGTTCCAGTCTG-3'
TBK1	F: 5'-ATGATTTAGACGGGGATGCTAG-3'	R: 5'-GAAATTTCACCTAACTCTGCCG-3'
18-S	F: 5'-GTAACCCGTTGAACCCCATT-3'	R: 5'-CCATCCAATCGGTAGTAGCG-3'