



Figure S1. Kaplan–Meier survival curves according to PI3K and mTOR protein expression in the TNBC group. DFI, disease free interval; OS, overall survival; **A** PI3K expression did not affect patient DFI **B**. PI3K expression did not affect patient OS **C**. mTOR expression did not affect patient DFI **D**. mTOR expression did not affect patient OS.

Table S1: Univariate analysis of tumor parameters as prognostic factors in patients with TNBC

Parameters	Np (%)	Median DFI time (months)	p value	Median OS time (months)	p value
<i>Number of patients per group</i>	70 (100)				
<i>Age at diagnosis</i>					
<50	19 (27)	121	0.53	130	0.67
≥50	51 (73)	109		123	
<i>Tumor type</i>					
Ductal	41 (58)	98	0.33	124	0.54
Lobular	13 (18)	100		133	
Other*	16 (24)	118		120	
<i>Lymphovascular/perineural invasion</i>					
Absent	54 (77)	115	0.001	130	0.005
Present	14 (20)	50		73	
<i>Pathological prognostic stage</i>					
I	10 (14)	108	0.52	125	0.08
II	37 (53)	109		127	
III and IV	23 (33)	109		122	
<i>pN stage</i>					
N0	36 (52)	116	0.01	130	0.002
N1	17 (24)	78		117	
N2 and N3	17 (24)	38		67	
<i>pT stage</i>					
T1	18 (26)	76	0.57	119	0.52
T2	43 (61)	110		131	
T3 and T4	9 (13)	114		130	
<i>Histologic grade</i>					
I and II	52 (67)	100	0.91	130	0.78
III	26 (33)	119		124	
<i>Metastases</i>					
M0	55 (79)	117	<0.0001	132	<0.0001
M1	15 (21)	20		41	

Table S2. Multivariate model DFI

Variables in the Equation								
	B	SE	Wald	df	Sig.	Exp(B)	95.0% CI for Exp(B)	
							Lower	Upper
Lymphovascular/ perineural invasion	-.177	1.136	.024	1	.876	.838	.090	7.758
pN	-.022	.509	.002	1	.966	.978	.361	2.651
Metastasis	2.749	1.093	6.333	1	.012	15.634	1.837	133.074
PTEN_copy_number	-.061	.914	.004	1	.947	.941	.157	5.642
PTEN PI3K mTOR	1.179	1.589	.551	1	.458	3.253	.144	73.295

Table S3. Multivariate model OS

Variables in the Equation								
	B	SE	Wald	df	Sig.	Exp(B)	95.0% CI for Exp(B)	
							Lower	Upper
PTEN_copy_number	.076	.315	.058	1	.809	1.079	.582	2.000
Lymphovascular/ perineural invasion	-.440	.505	.759	1	.384	.644	.239	1.733
pN	.203	.255	.633	1	.426	1.225	.743	2.018
Metastasis	2.927	.610	23.041	1	.000	18.679	5.653	61.728

Table S4: PTEN, PI3K, mTOR protein expression correlation with the expression of ABCG2, ABCC1 and ABCB1 transporters

	ABCG2		ABCC1		ABCB1	
PTEN	P value	R value	P value	R value	P value	R value
<i>Whole cohort</i>	0.46	-0.09	0.31	-0.12	0.21	-0.16
<i>Lymphatic metastasis present</i>	0.16	-0.25	0.11	-0.28	0.59	-0.09
<i>Distant metastasis present</i>	0.95	0.02	0.45	-0.21	0.53	-0.17
PI3K						
<i>Whole cohort</i>	0.61	0.06	0.32	0.12	0.91	-0.01
<i>Lymphatic metastasis present</i>	0.58	-0.09	0.9	0.02	0.58	-0.1
<i>Distant metastasis present</i>	0.15	-0.39	0.34	-0.26	0.63	-0.14
mTOR						
<i>Whole cohort</i>	0.92	0.01	0.25	0.14	0.45	0.09
<i>Lymphatic metastasis present</i>	0.21	0.22	0.16	0.25	0.76	0.06
<i>Distant metastasis present</i>	0.39	0.23	0.87	-0.05	0.72	0.09