

Supplementary Table S1. Expression of ANXA1, SQSTM1 and p-AKT in nasopharyngeal carcinomas (n=127, χ^2 test)

	NPC without metastasis	NPC with metastasis	P value
ANXA1			
High(4-6)	5	48	0.000
Low(0-3)	44	30	
SQSTM1			
High(4-6)	16	51	0.000
Low(0-3)	33	27	
p-AKT(S473)			
High(4-6)	17	55	0.000
Low(0-3)	32	23	

Supplementary Table S2. Correlation between ANXA1 expression and clinicopathological characteristics in nasopharyngeal carcinomas (n=127, χ^2 test)

Variables	n	Expression level		P value
		Low (0-3)	High (4-6)	
Gender				
Male	92	57	35	0.227
Female	35	17	18	
Age(y)				
<48	57	34	23	0.857
\geq 48	70	40	30	
Primary tumor (T) stage				
T1-2	43	26	17	0.849
T3-4	84	48	36	
lymph node (N) metastasis				
N0	49	37	12	0.029
N1-3	78	37	41	
Distant metastasis (M)				
M0	99	69	30	0.000
M1	28	5	23	
Clinical TNM stage				
I-II	24	20	4	0.006
III-IV	103	54	49	

Supplementary Table S3. The correlation between ANXA1 and p-AKT(S473) expression in NPCs (n=127, Spearman's correlation test)

	ANXA1 (H)	ANXA1 (L)
p-AKT(S473) (H)	50	22
p-AKT(S473) (L)	3	52
Total (T)	53	74
Percentage (H/T)	94.3%	29.7%

Spearman's correlation = 0.619, *P* value < 0.001

Supplementary Table S4. The correlation between SQSTM1 and p-AKT(S473) expression in NPCs (n=127, Spearman's correlation test)

	SQSTM1 (H)	SQSTM1 (L)
p-AKT(S473) (H)	60	12
p-AKT(S473) (L)	7	48
Total (T)	67	60
Percentage (H/T)	89.6%	20.0%

Spearman's correlation = 0.594, *P* value < 0.001

Supplementary Table S5. The clinicopathological parameters of 127 patients with nasopharyngeal carcinoma

Variable	No. of patients	%
Gender		
Male	92	72.44
Female	35	27.56
Age		
<48	57	44.88
≥48	70	55.12
Primary tumor(T) stage		
T1-2	43	34.65
T3-4	84	65.35
Lymph node(N) metastasis		
N0	49	38.58
N1-3	78	61.41
Distant metastasis(M)		
M0	99	77.95
M1	28	22.05
Clinical stage		
I-II	24	18.90
III-IV	103	81.10

Supplementary Table S6. The primers used for the amplification of the six genes by qRT-PCR

No.	Gene name	GenBank Accession No.	Primer sequence
1	Annexin A1	NM_000700	F: GAGGAGGTTGTTTTAGCTCTGC R: AGCAAAGCGTTCGAAAATCT
2	E-cadherin	NM_004360	F: CTTAGAGGTCAGCGTGTGTG R: AGCAAGAGCAGCAGAATCAG
3	Vimentin	NM_003380	F: AATGGCTCGTCACCTTCG R: CTAGTTTCAACCGTCTTAATCAG
4	N-cadherin	NM_004061	F: CCACGCCGAGCCCCAGTATC R: CCCCAGTCGTTTCAGGTAATCA
5	Snail	NM_005985	F: CCCCAATCGGAAGCCTAA R: CCTTTCCCACTGTCCTCAT
6	GAPDH	NM_002046	F: TGACTTCAACAGCGACACCCA R: CACCCTGTTGCTGTAGCCAAA