

Supplementary

Table S1 The basic information of 10 CRC patients for SNTB1 mRNA and protein expression analysis

Parameters	Cases (n)	Percentage (%)
Location		
Colon	5	50.0
Rectum	5	50.0
Gender		
Male	5	50.0
Female	5	50.0
Age		
≤60	4	40.0
>60	6	60.0
Grade		
G1	0	0.0
G2	10	100.0
G3	0	0.0
Stage		
Stage I		0.0
Stage II	5	50.0
Stage III	5	50.0
Stage IV	0	0.0

CRC, colorectal cancer; SNTB1, beta-1 syntrophin.

Table S2 The relationship between SNTB1 IHC expression level and clinical pathological characteristics in 294 patients with CRC

Parameters	Cases (n)	Percentage (%)
Gender		
Male	15	60.0
Female	10	40.0
Age		
<60	9	36.0
≥60	14	56.0
NA	2	8.0
Histologic		
Adenomatous polyp with IN	4	16.0
Tubular adenoma with IN	11	44.0
Villioistublar adenoma with IN	10	40.0

SNTB1, beta-1 syntrophin; IHC, immunohistochemistry; CRC, colorectal cancer; NA, not available; IN, intraepithelial neoplasia.

Table S3 The basic information of 70 patients with benign colorectal lesions for SNTB1 IHC staining analysis

Parameters	Cases (n)	Percentage (%)
Gender		
Male	61	71.8
Female	24	28.2
Age		
<60	50	58.8
≥60	35	41.2
Type of diseases		
Adenoma	42	49.4
Inflammation	10	11.8
Polyp	26	30.6
Other	7	8.2

Adenoma includes tubular adenoma and villioistublar adenoma. Inflammation includes ulceration, chronic inflammation and abscess. Polyp includes adenomatous polyp, inflammatory polyp, inflammatory hyperplastic polyp, juvenile polyp and hyperplastic polyp. Other includes multiple diverticulum and congenital megacolon. SNTB1, beta-1 syntrophin.

Table S4 The basic information of 30 patients with colorectal precancerous lesions for SNTB1 immunohistochemical staining analysis

Parameters	Number of cases	SNTB1 IHC expression		P values
		Low	High	
Gender				
Female	116	58	58	1.00
Male	162	81	81	
Age				
<60	138	70	68	0.999
≥60	136	69	67	
Grade				
G1–G2	213	109	104	0.0282*
G3	17	4	13	
T classification				
T1–2	65	39	26	0.0799
T3–4	200	95	105	
N classification				
N0	160	88	72	0.0345*
N1–2	109	46	63	
M classification				
M0	227	120	107	0.0440*
M1	51	19	32	
Stage				
I–II	138	79	59	0.0145*
III–IV	130	55	75	

*, P<0.05. SNTB1, beta-1 syntrophin; IHC, immunohistochemistry.

Table S5 A list of primers used in the reactions for clone PCR

Gene	Sequence (5'-3')
<i>shSNTB1-1#-up</i>	CCGGGCAAGGGATTGAAACACATCTCTCGAGAGATGTGTTTCAATCCCTTGCTTTTTG
<i>shSNTB1-1#-dn</i>	AATTCAAAAGCAAGGGATTGAAACACATCTCTCGAGAGATGTGTTTCAATCCCTTGCT
<i>shSNTB1-2#-up</i>	CCGGGGATTGAAACACATCTCTTCACTCGAGTGAAGAGATGTGTTTCAATCCTTTTTG
<i>shSNTB1-2#-dn</i>	AATTCAAAAGGATTGAAACACATCTCTTCACTCGAGTGAAGAGATGTGTTTCAATCCT

PCR, polymerase chain reaction.

Table S6 A list of primers used in the reactions for real-time RT-PCR

Gene name	Region	Sequence
<i>GAPDH</i>	Forward	5'-GCACCGTCAAGGCTGAGAAC-3'
	Reverse	5'-TGGTGAAGACGCCAGTGGA-3'
<i>SNTB1</i>	Forward	5'-CTGGAAGTGAAGTACATGCGAG-3'
	Reverse	5'-GGGATGCTTTTCCGGTCTCTG-3'
<i>CD133</i>	Forward	5'-TTTGGATTCATATGCCTTCTGT-3'
	Reverse	5'-CCATTGGCATTCTCTTTGAA-3'
<i>LGR5</i>	Forward	5'-CTCCCAGGTCTGGTGTGTTG-3'
	Reverse	5'-GAGGTCTAGGTAGGAGGTGAAG-3'
<i>EpCAM</i>	Forward	5'-AATCGTCAATGCCAGTGACTT-3'
	Reverse	5'-TCTCATCGCAGTCAGGATCATAA-3'
<i>ALDH1A1</i>	Forward	5'-ACAGTGGTTGTCAAACCAGCAGAG-3'
	Reverse	5'-TGTAGGCCCATACCAGGAACAATA-3'
<i>POU5F1</i>	Forward	5'-TGAGTAGTCCCTTCGCAAGC-3'
	Reverse	5'-GAGAAGGCGAAATCCGAAG-3'
<i>KLF4</i>	Forward	5'-CCCCGTGTGTTTACGGTAGT-3'
	Reverse	5'-GAGTTCCCATCTCAAGGCAC-3'

RT-PCR, reverse transcription-polymerase chain reaction.