

Supplementary Material

Additional file 1

Supplementary Table S1 - Clinical characteristics of the 94 patients in this study.

Characteristic	NSCLC with BM	NSCLC without BM
Patients(n)	48	46
Gender(n)		
Male	23	24
Female	25	22
Smoking history		
Smoker	11	5
Former smoker	7	14
Never	30	27
EGFR mutations statues		
by NGS (n)	35	33
EGFR mutation	25 (71%)	19 (57%)
EGFR wild-type	10 (29%)	14 (43%)

NGS: "Next-generation" sequencing technology

Supplementary Table S2 Primer sets used for qRT-PCR and ChIP

Primer set	Primers	Sequence	Product size (bp)	Application
WNT5A	Forward	5'- GCCAGTATCAATTCCGACATCG -3'	114	qRT-PCR
	Reverse	5'- TCACCGCGTATGTGAAGGC -3'		
E2F1	Forward	5'- CATCCCAGGAGGTCACCTTCTG -3'	145	qRT-PCR
	Reverse	5'- GACAACAGCGGTTCTTGCTC -3'		
β-catenin	Forward	5'- TGTACCGCTATGGTTACACTCG -3'	97	qRT-PCR
	Reverse	5'- GGCAGGGACAGTTGCTTCT -3'		
CCND1	Forward	5'-GCTGCGAAGTGGAACCATC-3'	135	qRT-PCR
	Reverse	5'-CCTCCTTCTGCACACATTTGAA-3'		
ZEB1	Forward	5'-CAGCTTGATACCTGTGAATGGG-3'	106	qRT-PCR
	Reverse	5'-TATCTGTGGTCGTGTGGGACT-3'		
CD44	Forward	5'-CTGCCGCTTTGCAGGTGTA-3'	109	qRT-PCR
	Reverse	5'-CATTGTGGGCAAGGTGCTATT-3'		
GAPDH	Forward	5'- ACAACTTTGGTATCGTGGAAGG -3'	101	qRT-PCR
	Reverse	5'- GCCATCACGCCACAGTTTC -3'		
WNT5A set 1	Forward	5'- GCGGTCGGTCAGTCTGTTTG -3'	240	ChIP

(-1004/-765) Reverse 5'- ACTCAGCTCCGGCGGTCCAT -3'

WNT5A, Wnt family member 5A; E2F1, E2F transcription factor 1; β -catenin, catenin beta 1; CCND1, cyclin D1; ZEB1, zinc finger E-box binding homeobox 1; CD44, CD44 molecule (Indian blood group); GAPDH, glyceraldehyde 3-phosphate dehydrogenase; ChIP, chromatin immunoprecipitation.

Supplementary Table S3 : Supplementary excel