

Cyclooxygenase-2 induced β 1-integrin expression in NSCLC and promoted cell invasion via the EP1/MAPK/E2F-1/FoxC2 signal pathway

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The siRNAs targeting following genes:

EP1R-siRNA: ACUUCUAAGCACAACCAGAtt (sense sequence).

COX-2 siRNA: CGGGAACACAACAGAGUAUtt (sense sequence).

E2F1 siRNA1: GACCACCUGAUGAAUAUCUtt (sense sequence).

E2F1 siRNA2: CUGCAGAGCAGAUGGUUAUtt (sense sequence).

FoxC2 siRNA: GACCCAACCAGACAAUUAAtt (sense sequence).

The sequences of the β 1-integrin PCR primers used were:

Forward: 5'-CTGGAGATGGGAAACTTGGT-3'

Reverse: 5'-GTTTCTGGACAAGGTGAGCA-3'

PCR reaction conditions were: pre-incubation at 95°C for 10 min (1 cycle); 95°C for 15 s, 60°C for 15 s and 72°C for 30 s (40 cycles).

The sequences of the PCR primers used in β 1-integrin promotor flanking FoxC2 binding elements were:

Forward: 5' - ATTCTACCCACCTAAGTTAACCAT -3'

Reverse: 5' - AGTATTGACTCCTTTTCAGCCCT -3'

The sequences of the PCR primers used in FoxC2 promotor flanking E2F-1 binding elements were:

Forward: 5' - GCTGCCAGGAGCCCG -3'

Reverse: 5' - CTGCATGCTGCTTCCGAGA-3'

PCR reaction conditions were: pre-incubation at 95°C for 10 min (1 cycle); 95°C for 15 s, 50°C for 15 s and 72°C for 30 s (40 cycles).