

Additional materials(The primers used for RT-PCR are listed)**(1) qPCR Primer sequences are shown in the table below**

Rat-ZO-1-F1	TTCGCCTGAAACAAACCCAG
Rat-ZO-1-R1	CTTGTGATACGTGCGAGGTG
Rat-VEGF-F1	GGAACCTAGACCTCTCACCGG
Rat-VEGF-R1	CTCTCCCTTCATGTCAGGCT
Rat-TGF β 1-F1	GACCGCAACAACGCAATCTA
Rat-TGF β 1-R1	ACTGCTTCCCGAATGTCTGA
Rat-TNF- α -F1	TCCCAGAAAAGCAAGCAACC
Rat-TNF- α -R1	TAGACAGAAGAGCGTGGTGG
Rat-NF-kB-F1	CGTGAGGCTGTTTGGTTTGA
Rat-NF-kB-R1	TCTGCCCTCCTGACTCTACT
Rat-Smad3-F1	CATGGGCAAATGAAAGGGCT
Rat-Smad3-R1	CCAGGGTGAAGATGACAGGT
Rat-GAPDH-F1	TGCTGAGTATGTCGTGGAGTCT
Rat-GAPDH-R1	CAGTCTTCTGAGTGGCAGTGAT

(2) Three siRNA sequence of rat Smad3 was constructed

	sense (5'-3')	antisense (5'-3')
siSmad3-1	GUGAACACCAAGUGCAUUATT	UAAUGCACUUGGUGUUCACTT
siSmad3-2	CCAGAGCAAUUAUCCAGAATT	UUCUGGAAUAUUGCUCUGGTT
siSmad3-3	GCACAGCCACCAUGAGUUATT	UAACUCAUGGUGGCUGUGCTT