Recombinant Mouse WNT1-inducible-signaling pathway protein 1 (Wisp1)

Product Code	CSB-BP026119MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O54775
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	TALSPTPT TMTFTPAPLE ETTTRPEFCK WPCECPQSPP RCPLGVSLIT DGCECCKICA QQLGDNCTEA AICDPHRGLY CDYSGDRPRY AIGVCAQVVG VGCVLDGVRY TNGESFQPNC RYNCTCIDGT VGCTPLCLSP RPPRLWCRQP RHVRVPGQCC EQWVCDDDAR RPRQTALLDT RAFAASGAVE QRYENCIAYT SPWSPCSTTC GLGISTRISN VNARCWPEQE SRLCNLRPCD VDIQLHIKAG KKCLAVYQPE EATNFTLAGC VSTRTYRPKY CGVCTDNRCC IPYKSKTISV DFQCPEGPGF SRQVLWINAC FCNLSCRNPN DIFADLESYP DFEEIAN
Source	Baculovirus
Target Names	Wisp1
Protein Names	Recommended name: WNT1-inducible-signaling pathway protein 1 Short name= WISP-1 Alternative name(s): CCN family member 4 ELM-1
Expression Region	23-367
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. It is expressed at a high level in fibroblast cells, and overexpressed in colon tumors. The encoded protein binds to decorin and biglycan, two members of a family of small leucine-rich proteoglycans present in the extracellular matrix of connective tissue, and possibly prevents the inhibitory activity of decorin and biglycan in tumor cell proliferation. It also attenuates p53-mediated apoptosis in response to DNA damage through activation of the Akt kinase. It is 83% identical to the mouse protein at the amino acid level.

	Alternative splicing of this gene generates 2 transcript variants.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.