

Active Recombinant Mouse SDC2 Protein

Cat. No. SDC2-14790M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Syndecan-2 (Glu19-Phe141) protein with C-terminal TGH ^{HH} HHHHHGGQ was expressed in HEK293 cell.
Species	Mouse
Source	HEK293
Description	Syndecan-2, previously known as fibroglycan, is a member of the syndecan family of Type 1 transmembrane proteins carrying heparan sulfate and chondroitin sulfate glycosaminoglycans. The syndecan family consists of four transmembrane proteoglycans divided into two subfamilies (Syndecan -1 , -3 and Syndecan-2 , - 4) based on their sequence homology. The four syndecans have conserved cytoplasmic domains which enables them to associate with cytoskeletal proteins and signaling molecules. The cytoplasmic tail of Syndecan-2 has both serine and tyrosine phosphorylation sites. Non-covalent homodimerization of Syndecan-2 is dependent on the transmembrane domain. Syndecan-2 is expressed in endothelial, mesenchymal, carcinoma cells, and is the predominant syndecan expressed during embryonic development. It functions as a co-receptor for enzymes, growth factors, and cytokines, and contributes to the formation of cytokine gradients through extracellular shedding. Syndecan-2 interacts with high affinity receptors and integrins to modulate intracellular signaling. Syndecan is also involved in matrix assembly and remodeling. It controls laminin and fibronectin matrix assembly into a fibrillar matrix.
Bio-activity	When mouse Syndecan-2 is immobilized at 5 µg/mL, human FGF-basic binds with

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	EC50 of 2 - 8 ng/mL.
Molecular Mass	14.9 kDa
N-terminal Sequence Analysis	Glu
Endotoxin	Less than 0.1 EU per µg of protein as determined by the LAL method.
Purity	>95% as determined by Coomassie stained SDS-PAGE.
Applications	Bioassay
Storage	Unopened vial can be stored between 2 centigrade and 8 centigrade for one month, at -20 centigrade for six months, or at -70 centigrade for one year. For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored at -20 centigrade to -70 centigrade. Stock solutions can also be prepared at 50 - 100 µg/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1% BSA or HSA and stored in working aliquots at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
Concentration	200 µg/mL
Storage Buffer	0.22 µm filtered protein solution is in PBS, pH 7.2.

GENE INFORMATION

Gene Name	Sdc2 syndecan 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Sdc2

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Synonyms	SDC2; Synd2; Hspg1; Fibroglycan; Hspg1; Synd2; AA960457; syndecan-2; 4833414L08Rik; syndecan-2; HSPG; fibroglycan; heparan sulfate proteoglycan 1, cell surface-associated (fibroglycan); heparan sulfate proteoglycan core protein
Gene ID	15529
mRNA Refseq	NM_008304
Protein Refseq	NP_032330
UniProt ID	P43407

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