

Syndecan-4 Active Protein | SDC4 active protein

Syndecan-4 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258200

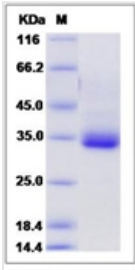
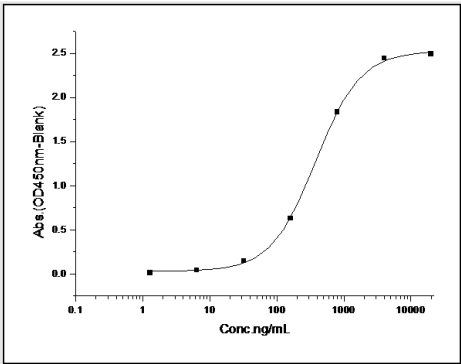
HOST
HEK293 Cells

PRODUCT SYNONYMS

Syndecan-4; Syndecan-4 Protein; Mouse; Recombinant (hFc Tag); Mouse Syndecan-4/SDC4 Protein (Fc Tag); AA959608 Protein; AW108331 Protein; ryudocan Protein; Synd4 Protein; syndecan-4 Protein; syndecan 4; SDC4 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Val14 6
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 24
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse SDC4 (O35988)(Met1-Val146) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized human MDK at 10ug/ml (100uL/well) can bind mouse SDC4-Fc with a linear range of 0.16-1.25ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human MDK at 10 ug/ml (100 ul/well) can bind mouse SDC4-Fc with a linear range of 0.16-1.25 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for SDC4 active protein	Background: SDC4 (Syndecan-4), also known as Syn4, is a transmembrane heparan sulfate proteoglycan that co-operates with integrins during cell-matrix interactions for the assembly of focal adhesions and actin stress fibers and in the phosphorylation of focal adhesion kinase (FAK) on Tyr397. Syndecan-4 plays roles in the formation of focal adhesions and stress fibers. The cytoplasmic domain of syndecan-4 interacts with several signalling and structural proteins, and both extracellular and cytoplasmic domains are necessary for regulated activation of associated transmembrane receptors. Syndecan-4/SDC4 is a heparan sulfate proteoglycan and works as a coreceptor for various growth factors. SDC4 deficiency limits neointimal formation after vascular injury by regulating vascular smooth muscle cells (VSMCs) proliferation and vascular progenitor cells (VPCs) mobilization. Therefore, SDC4 may be a novel therapeutic target for preventing arterial restenosis after angioplasty.
References	Ikesue M, et al. (2011) Syndecan-4 deficiency limits neointimal formation after vascular injury by regulating vascular smooth muscle cell proliferation and vascular progenitor cell mobilization. Arterioscler Thromb Vasc Biol. 31(5): 1066-74.Saoncella S, et al. (2004) Syndecan-4 regulates ATF-2 transcriptional activity in a Rac1-dependent manner. J Biol Chem. 279(45): 47172-6.Bass MD, et al. (2002) Cytoplasmic interactions of syndecan-4 orchestrate adhesion receptor and growth factor receptor signalling. Biochem J. 368(Pt 1): 1-15.Couchman JR, et al. (1999) Syndecan-4 and integrins: combinatorial signaling in cell adhesion. J Cell Sci. 112 (Pt 20): 3415-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755442
NCBI GeneID	20971
NCBI Accession #	NP_035651.1
NCBI GenBank Nucleotide #	NM_011521.2
UniProt Accession #	O35988
Molecular Weight	21,482 Da
NCBI Official Full Name	syndecan-4
NCBI Official Synonym Full Names	syndecan 4
NCBI Official Symbol	Sdc4
NCBI Official Synonym Symbols	Synd4; AA959608; AW108331; ryudocan; syndecan-4
NCBI Protein Information	syndecan-4; ryudocan core protein
UniProt Protein Name	Syndecan-4
UniProt Gene Name	Sdc4

UniProt Synonym Gene Names	SYND4
UniProt Entry Name	SDC4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-sdc4-active-protein/syndecan-4/258200>