

Syndecan 4 (SDC4) Active Protein | SDC4 active protein

Active Syndecan 4 (SDC4)

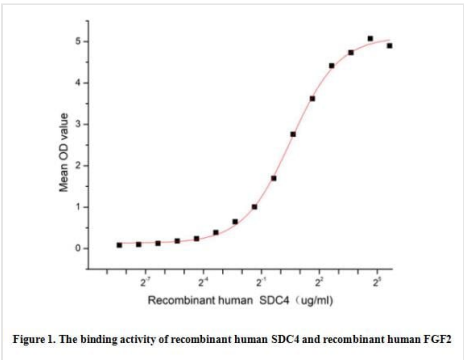
CATALOG # AAA161868	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Syndecan 4 (SDC4); Active Syndecan 4 (SDC4); Syndecan 4; SYND4; Amphiglycan; Ryudocan; Ryudocan core protein4; SDC4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ala18~Glu1 45
Applicable Applications for SDC4 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4.5
Research Area	Signal transduction, Infection immunity, Bone metabolism, Rheumatology, Immunodeficiency
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

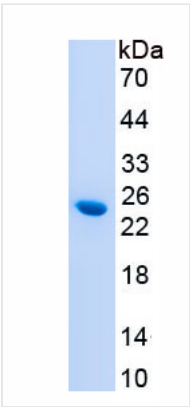


Bioactivity

Syndecan-4 (SDC4), a transmembrane proteoglycan bearing heparan sulfate chains, is an important member of SDCs family. SDC4 is expressed on dendritic cells (DCs) and activated T cells, plays a crucial role in DC motility and has been shown as a potential target for activated T-cell-driven diseases. SDC4 is involved in numerous inside-out and outside-in signaling processes, such as binding and sequestration of growth factors and extracellular matrix components, regulation of the activity of the small GTPase Rac1, protein kinase C-alpha, the level of intracellular calcium, or the phosphorylation of focal adhesion kinase. A functional binding ELISA assay was conducted to detect the interaction of recombinant human Fibroblast Growth Factor 2, Basic (FGF2) and recombinant human SDC4. Briefly, biotin-linked SDC4 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGF2-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50ul stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human SDC4 and recombinant human FGF2 was shown in Figure 1, the EC50 for this effect is 1.45 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for SDC4 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38201675
NCBI GeneID	6385
NCBI Accession #	NP_002990.2
NCBI GenBank Nucleotide #	NM_002999.3
UniProt Accession #	P31431; O00773; Q16833; Q53FN9; Q6FGN3
Molecular Weight	21,642 Da
NCBI Official Full Name	syndecan-4
NCBI Official Synonym Full Names	syndecan 4
NCBI Official Symbol	SDC4
NCBI Official Synonym Symbols	SYND4
NCBI Protein Information	syndecan-4; amphiglycan; ryudocan amphiglycan; ryudocan core protein; syndecan proteoglycan 4; syndecan 4 (amphiglycan, ryudocan)
UniProt Protein Name	Syndecan-4
UniProt Gene Name	SDC4
UniProt Synonym Gene Names	SYND4

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/e-coli-active-protein/syndecan-4-sdc4/161868>