

Syndecan-2 (L-18): sc-9492

BACKGROUND

Syndecans are type I integral membrane proteoglycans that contain both chondroitin sulfate and heparan sulfate groups. Syndecans are involved in cell-extracellular matrix adhesion and growth factor binding. Syndecan-1 (SYND1, also called CD138) is an extracellular matrix receptor, which binds to collagens, fibronectin and thrombospondin. Syndecan-1 and Syndecan-3 (also designated N-Syndecan) interact with MK (midkine), a growth/differentiation factor involved in embryogenesis of the central nervous system. Syndecan-2 (also designated fibroglycan) is highly expressed at areas of high morphogenetic activity, such as epithelial-mesenchymal interfaces and the prechondrogenic and preosteogenic mesenchymal condensations. Syndecan-4 (also designated amphiglycan or ryudocan) functions cooperatively with integrins in the processes of cell spreading, focal adhesion assembly and actin stress fiber assembly.

CHROMOSOMAL LOCATION

Genetic locus: SDC2 (human) mapping to 8q22.1.

SOURCE

Syndecan-2 (L-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Syndecan-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9492 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Syndecan-2 (L-18) is recommended for detection of Syndecan-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Syndecan-2 siRNA (h): sc-41045, Syndecan-2 shRNA Plasmid (h): sc-41045-SH and Syndecan-2 shRNA (h) Lentiviral Particles: sc-41045-V.

Molecular Weight of Syndecan-2: 22-48 kDa.

Positive Controls: Syndecan-2 (h): 293T Lysate: sc-116005.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

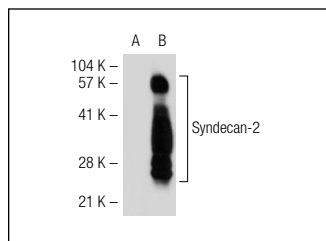
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



Syndecan-2 (L-18): sc-9492. Western blot analysis of Syndecan-2 expression in non-transfected: sc-117752 (A) and human Syndecan-2 transfected: sc-116005 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

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- Paris, S., et al. 2008. Opposing roles of syndecan-1 and syndecan-2 in polyethyleneimine-mediated gene delivery. *J. Biol. Chem.* 283: 7697-7704.
- Araki, E., et al. 2009. Clustering of syndecan-4 and integrin β 1 by laminin α -3 chain-derived peptide promotes keratinocyte migration. *Mol. Biol. Cell* 20: 3012-3024.
- Zong, F., et al. 2010. Effect of syndecan-1 overexpression on mesenchymal tumour cell proliferation with focus on different functional domains. *Cell Prolif.* 43: 29-40.
- Wittrup, A., et al. 2011. Studies of proteoglycan involvement in CPP-mediated delivery. *Methods Mol. Biol.* 683: 99-115.
- Rovira-Clavé, X., et al. 2012. Syndecan-2 can promote clearance of T-cell receptor/CD3 from the cell surface. *Immunology* 137: 214-25.
- Mytilinaiou, M., et al. 2013. Syndecan-2 is a key regulator of transforming growth factor β 2/Smad2-mediated adhesion in fibrosarcoma cells. *IUBMB Life* 65: 134-143.



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