

Syndecan-2 (M-140): sc-15348

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 or HSPG) 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; Sdc2 (mouse) mapping to 15 B3.1.

SOURCE

Syndecan-2 (M-140) is a rabbit polyclonal antibody raised against amino acids 1-140 mapping near the N-terminus of Syndecan-2 of mouse origin.

PRODUCT

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

APPLICATIONS

Syndecan-2 (M-140) is recommended for detection of Syndecan-2 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (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 siRNA (m): sc-41046, Syndecan-2 shRNA Plasmid (h): sc-41045-SH, Syndecan-2 shRNA Plasmid (m): sc-41046-SH, Syndecan-2 shRNA (h) Lentiviral Particles: sc-41045-V and Syndecan-2 shRNA (m) Lentiviral Particles: sc-41046-V.

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

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

STORAGE

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

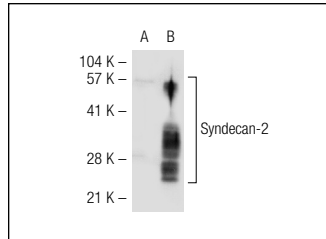
PROTOCOLS

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

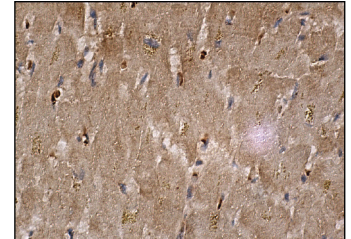
RESEARCH USE

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

DATA



Syndecan-2 (M-140): sc-15348. 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.



Syndecan-2 (M-140): sc-15348. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of myocytes.

SELECT PRODUCT CITATIONS

- Okamoto, O., et al. 2003. Normal human keratinocytes bind to the α 3LG4/5 domain of unprocessed laminin-5 through the receptor syndecan-1. *J. Biol. Chem.* 278: 44168-44177.
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- Vuoriluoto, K., et al. 2008. Syndecan-1 supports Integrin α 2/ β 1-mediated adhesion to collagen. *Exp. Cell Res.* 314: 3369-3381.
- Kharabi Masouleh, B., et al. 2009. Role of the heparan sulfate proteoglycan syndecan-1 (CD138) in delayed-type hypersensitivity. *J. Immunol.* 182: 4985-4993.
- Wakayama, T., et al. 2009. Expression, localization, and binding activity of the ezrin/radixin/moesin proteins in the mouse testis. *J. Histochem. Cytochem.* 57: 351-362.
- Chung, J.S., et al. 2009. The DC-HIL/syndecan-4 pathway inhibits human allogeneic T-cell responses. *Eur. J. Immunol.* 39: 965-974.
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Try **Syndecan-2 (F-5): sc-376160** or **Syndecan-2 (H-7): sc-365624**, our highly recommended monoclonal alternatives to Syndecan-2 (M-140).