

# Syndecan-2 (T-17): sc-9494

## 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 (mouse) mapping to 15 B3.1

## SOURCE

Syndecan-2 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-9494 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## RESEARCH USE

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

## APPLICATIONS

Syndecan-2 (T-17) is recommended for detection of Syndecan-2 of mouse and rat 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 (m): sc-41046, Syndecan-2 shRNA Plasmid (m): sc-41046-SH and Syndecan-2 shRNA (m) Lentiviral Particles: sc-41046-V.

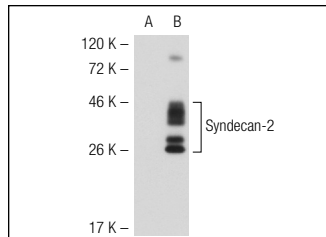
Molecular Weight of Syndecan-2: 22-48 kDa.

Positive Controls: Syndecan-2 (m): 293T Lysate: sc-123870, B16-F0 cell lysate: sc-2298 or WEHI-231 whole cell lysate: sc-2213.

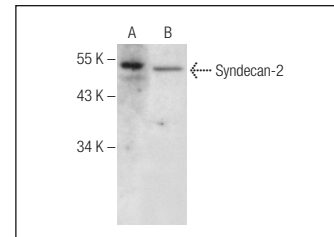
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Syndecan-2 (T-17): sc-9494. Western blot analysis of Syndecan-2 expression in non-transfected: sc-117752 (A) and mouse Syndecan-2 transfected: sc-123870 (B) 293T whole cell lysates.



Syndecan-2 (T-17): sc-9494. Western blot analysis of Syndecan-2 expression in B16-F0 (A) and WEHI-231 (B) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Chen, L., et al. 2004. Syndecan-2 regulates transforming growth factor-β signaling. *J. Biol. Chem.* 279: 15715-15718.
- Wen, J., et al. 2007. Syndecans are differentially expressed during the course of aortic aneurysm formation. *J. Vasc. Surg.* 46: 1014-1025.
- Manich, G., et al. 2014. Presence of a neo-epitope and absence of amyloid β and Tau protein in degenerative hippocampal granules of aged mice. *Age* 36: 151-165.
- Manich, G., et al. 2014. Clustered granules present in the hippocampus of aged mice result from a degenerative process affecting astrocytes and their surrounding neuropil. *Age* 36: 9690.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Syndecan-2 (F-5): sc-376160** or **Syndecan-2 (F-11): sc-376229**, our highly recommended monoclonal alternatives to Syndecan-2 (T-17).