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Syndecan-2 (m): 293T Lysate: sc-123870

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.

REFERENCES

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2. David, G., Bai, X.M., Van der Schueren, B., Marynen, P., Cassiman, J.J. and Van den Berghe, H. 1993. Spatial and temporal changes in the expression of fibroglycan (Syndecan-2) during mouse embryonic development. *Development* 119: 841-854.
3. Salmivirta, M. and Jalkanen, M. 1995. Syndecan family of cell surface proteoglycans: developmentally regulated receptors for extracellular effector molecules. *Experientia* 51: 863-872.
4. Nakanishi, T., Kadomatsu, K., Okamoto, T., Ichihara-Tanaka, K., Kojima, T., Saito, H., Tomoda, Y. and Muramatsu, T. 1997. Expression of Syndecan-1 and -3 during embryogenesis of the central nervous system in relation to binding with midkine. *J. Biochem.* 121: 197-205.
5. Saoncella, S., Echtermeyer, F., Denhez, F., Nowlen, J.K., Mosher, D.F., Robinson, S.D., Hynes, R.O. and Goetinck, P.F. 1999. Syndecan-4 signals cooperatively with integrins in a Rho-dependent manner in the assembly of focal adhesions and Actin stress fibers. *Proc. Natl. Acad. Sci. USA* 96: 2805-2810.

CHROMOSOMAL LOCATION

Genetic locus: Sdc2 (mouse) mapping to 15 B3.1.

PRODUCT

Syndecan-2 (m): 293T Lysate represents a lysate of mouse Syndecan-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

Syndecan-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Syndecan-2 antibodies. Recommended use: 10-20 µl per lane.

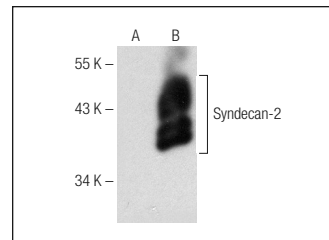
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Syndecan-2 (F-5): sc-376160 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Syndecan-2 expression in Syndecan-2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

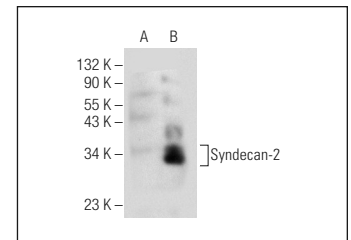
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Syndecan-2 (F-5): sc-376160. 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 (F-11): sc-376229. 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.

PROTOCOLS

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