**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 rudoecan) 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).


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


**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.

**SELECT PRODUCT CITATIONS**


**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.

Try Syndecan-2 (F-5): sc-376160 or Syndecan-2 (H-7): sc-365624, our highly recommended monoclonal alternatives to Syndecan-2 (M-140).