10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Syndecan-1/SDC1 Picoband Antibody

Catalog # ABO12911

Specification

Anti-Syndecan-1/SDC1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P18827
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Syndecan-1(SDC1) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Syndecan-1/SDC1 Picoband Antibody - Additional Information

Gene ID 6382

Other Names
Syndecan-1, SYND1, CD138, SDC1, SDC

Calculated MW
32462 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Membrane; Single-pass type I membrane protein. Secreted. Shedding of the ectodomain produces a soluble form.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human Syndecan-1/SDC1 recombinant protein (Position: Q23-G254). Human Syndecan-1/SDC1 shares 69.2% and 69.8% amino acid (aa) sequence identity with mouse and rat Syndecan-1/SDC1, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution,**

at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Anti-Syndecan-1/SDC1 Picoband Antibody - Protein Information

Name SDC1 (HGNC:10658)

Synonyms SDC

Function
Cell surface proteoglycan that contains both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix (By similarity). Regulates exosome biogenesis in concert with SDCBP and PDCD6IP (PubMed:22660413). Able to induce its own expression in dental mesenchymal cells and also in the neighboring dental epithelial cells via an MSX1-mediated pathway (By similarity).

Cellular Location
Membrane; Single-pass type I membrane protein. Secreted Secreted, extracellular exosome Note=Shedding of the ectodomain produces a soluble form

Tissue Location
Detected in placenta (at protein level) (PubMed:32337544). Detected in fibroblasts (at protein level) (PubMed:36213313).

Anti-Syndecan-1/SDC1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Syndecan-1/SDC1 Picoband Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

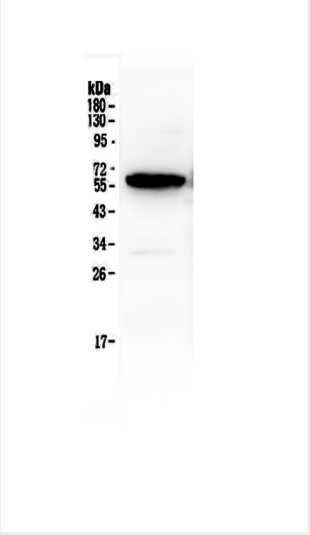


Figure 1. Western blot analysis of Syndecan-1/SDC1 using anti-Syndecan-1/SDC1 antibody (ABO12911).

Anti-Syndecan-1/SDC1 Picoband Antibody - Background

Syndecan 1 is a protein which in humans is encoded by the SDC1 gene. The protein encoded by this gene is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. Altered syndecan-1 expression has been detected in several different tumor types. While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. These two represent the major variants of this gene and encode the same protein.