

Anti-Syndecan-4/SDC4 Antibody
Catalog # ABO12079**Specification****Anti-Syndecan-4/SDC4 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P31431
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Syndecan-4(SDC4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

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

Anti-Syndecan-4/SDC4 Antibody - Additional Information**Gene ID 6385****Other Names**

Syndecan-4, SYND4, Amphiglycan, Ryudocan core protein, SDC4

Calculated MW

21642 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Isoform 1: Membrane; Single-pass type I membrane protein. Secreted. Shedding of the ectodomain produces a soluble form. .

Tissue Specificity

Expressed in epithelial and fibroblastic cells. .

Protein Name

Syndecan-4

Contents

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

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Syndecan 4 (172-198aa MKKDEGSYDLGKKPIYKKAPTNEFYA), identical to the related mouse and rat sequences.

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-4/SDC4 Antibody - Protein Information**Name** SDC4 ([HGNC:10661](#))**Function**

Cell surface proteoglycan which regulates exosome biogenesis in concert with SDCBP and PDCD6IP (PubMed:22660413).

Cellular Location

[Isoform 1]: Membrane; Single-pass type I membrane protein. Secreted. Note=Shedding of the ectodomain produces a soluble form.

Tissue Location

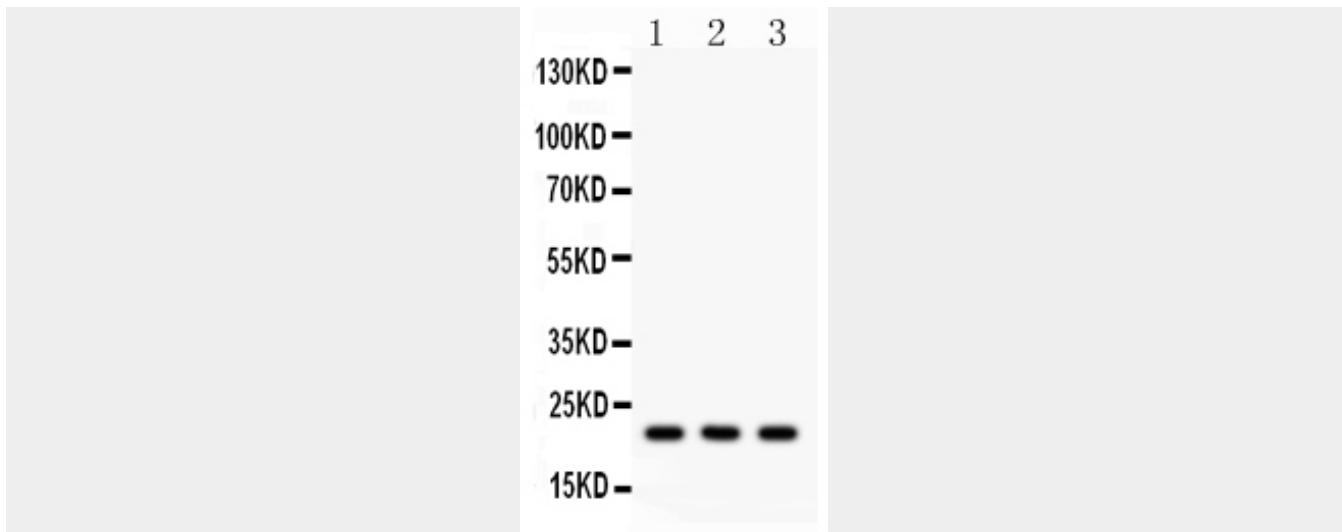
Detected in fibroblasts (at protein level) (PubMed:1500433, PubMed:36213313). Also expressed in epithelial cells (PubMed:1500433).

Anti-Syndecan-4/SDC4 Antibody - Protocols

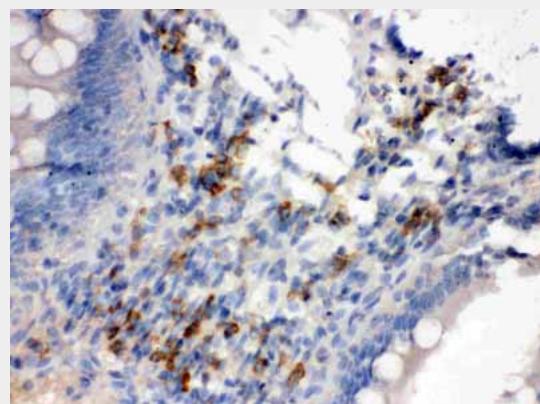
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

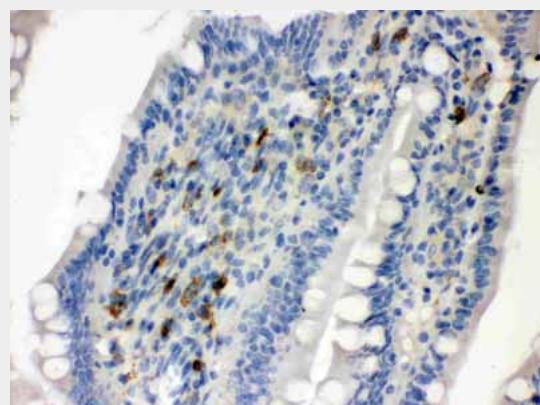
Anti-Syndecan-4/SDC4 Antibody - Images



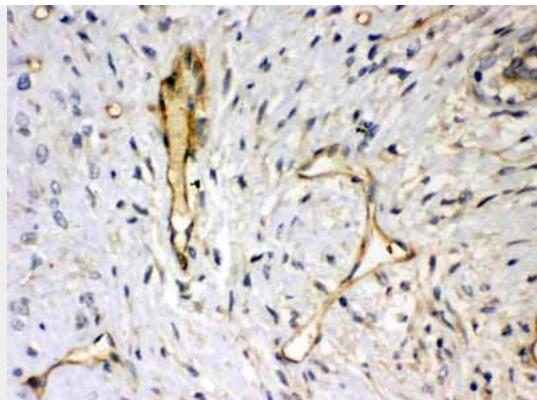
Anti- Syndecan 4 Picoband antibody, ABO12079, Western blotting
All lanes: Anti Syndecan 4 (ABO12079) at 0.5ug/ml
Lane 1: MCF-7 Whole Cell Lysate at 40ug
Lane 2: SW620 Whole Cell Lysate at 40ug
Lane 3: Rat Lung Tissue Lysate at 50ug
Predicted bind size: 22KD
Observed bind size: 22KD



Anti- Syndecan 4 Picoband antibody, ABO12079, IHC(P)
IHC(P): Mouse Intestine Tissue



Anti- Syndecan 4 Picoband antibody, ABO12079, IHC(P)
IHC(P): Rat Intestine Tissue



Anti- Syndecan 4 Picoband antibody, ABO12079, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Syndecan-4/SDC4 Antibody - Background

Syndecan 4 is also known as SDC4. 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.