

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

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**Anti-Syndecan-4/SDC4 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P31431</a>
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<br>Western blot, 0.1-0.5 µg/ml, Human, Rat <br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Syndecan 4 (172-198aa MKKKDEGSYDLGKKPIYKKAPTNEFYA), 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 reconstitution, 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:<http://www.uniprot.org/citations/22660413> target="\_blank">22660413</a>).

**Cellular Location**

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

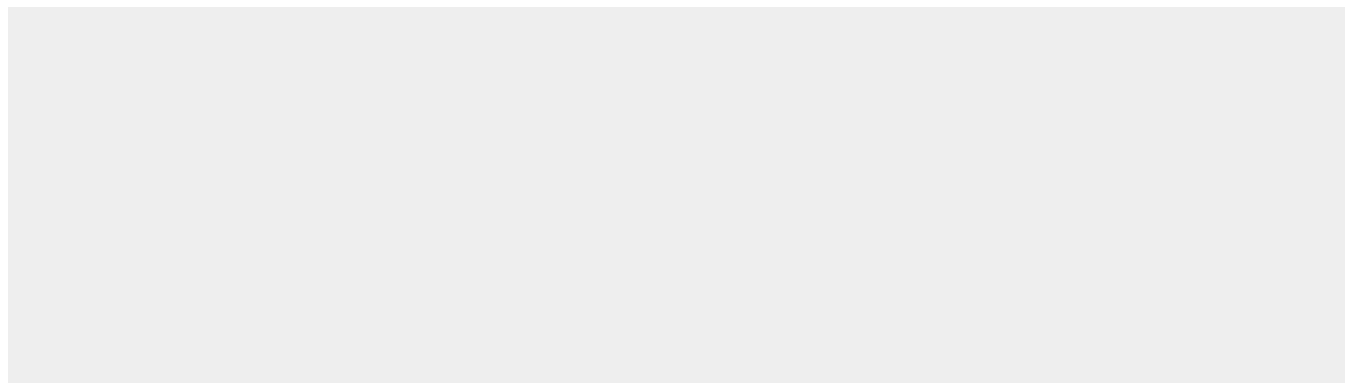
**Tissue Location**

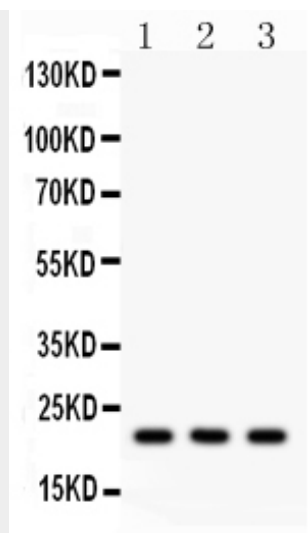
Detected in fibroblasts (at protein level) (PubMed:1500433, PubMed:36213313). Also expressed in epithelial cells (PubMed:1500433).

**Anti-Syndecan-4/SDC4 Antibody - Protocols**

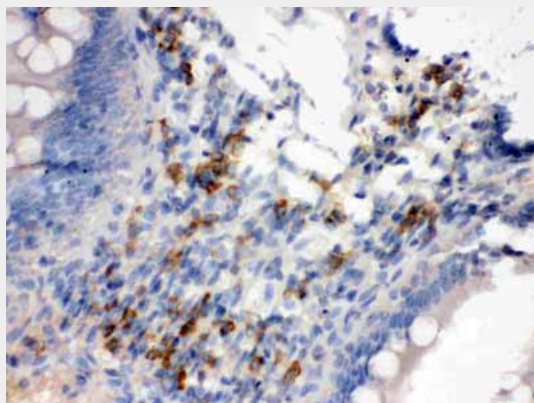
Provided below are standard protocols that you may find useful for product applications.

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

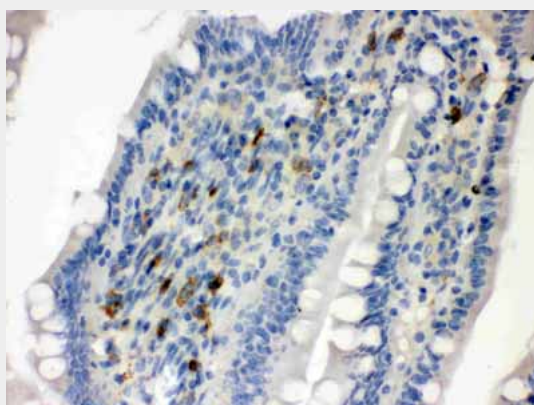
**Anti-Syndecan-4/SDC4 Antibody - Images**



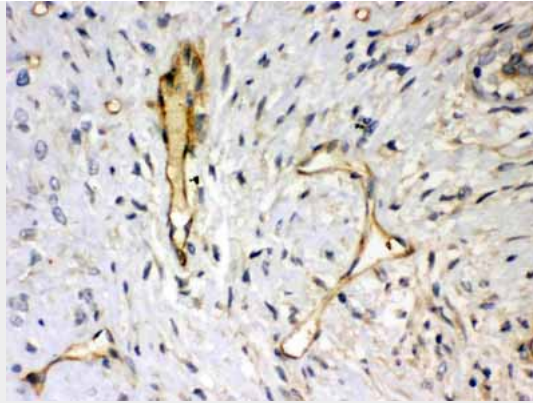
Anti- Syndecan 4 Picoband antibody, ABO12079, Western blotting All lanes: Anti Syndecan 4 (ABO12079) at 0.5ug/ml  
Lane 1: MCF-7 Whole Cell Lysate at 40ug  
Lane 2: SW620 Whole Cell Lysate at 40ug  
Lane 3: Rat Lung Tissue Lysate at 50ug  
Predicted bind size: 22KD  
Observed bind size: 22KD



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.