

Anti-Syndecan-4/SDC4 Antibody

Catalog # ABO12079

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.

Additional Information

Gene ID	6385
Other Names	Syndecan-4, SYND4, Amphiglycan, Ryudocan core protein, SDC4
Calculated MW	21642
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. .
Source	Eukaryota
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 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.

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).

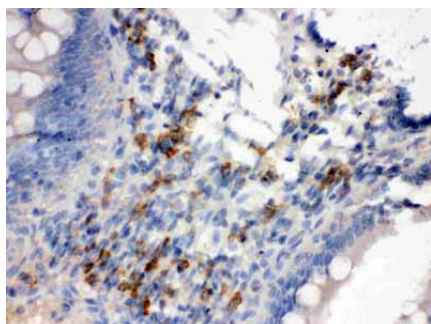
Background

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 nature of only two have been described to date. These two represent the major variants of this gene and encode the same protein.

Images

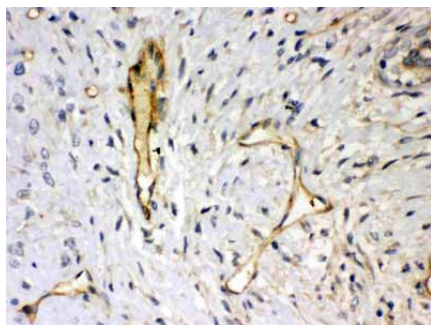
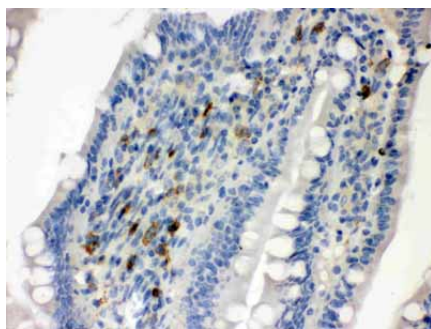


Anti- Syndecan 4 Picoband antibody, ABO12079, Western blotting
All lanes: Anti Syndecan 4 (ABO12079) at 0.5ug/ml
Lane 1: MCF-7 Whole Cell Lysate at 40ug
Lane 2: SW620 Whole Cell Lysate at 40ug
Lane 3: Rat Lung Tissue Lysate at 50ug
Predicted bind size: 22KD
Observed bind size: 22KD



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.