10320 Camino Santa Fe, Suite G
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Anti-Syndecan 2 Antibody
Catalog # ABO11200

Specification

Anti-Syndecan 2 Antibody - Product Information

Application	**WB, IHC-P, IHC-F**
Primary Accession	P34741
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Syndecan-2(SDC2) detection. Tested with WB, IHC-P, IHC-F in Human.

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

Anti-Syndecan 2 Antibody - Additional Information

Gene ID 6383

Other Names
Syndecan-2, SYND2, Fibroglycan, Heparan sulfate proteoglycan core protein, HSPG, CD362, SDC2, HSPG1

Calculated MW
22160 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, -
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Membrane; Single-pass type I membrane protein.

Protein Name
Syndecan-2

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

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human Syndecan 2(105-122aa EETDKEKVHLSDSERKMD).

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.

Sequence Similarities
Belongs to the syndecan proteoglycan family.

Anti-Syndecan 2 Antibody - Protein Information

Name SDC2

Synonyms HSPG1

Function
Cell surface proteoglycan which regulates dendritic arbor morphogenesis.

Cellular Location
Membrane; Single-pass type I membrane protein.

Anti-Syndecan 2 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 2 Antibody - Images

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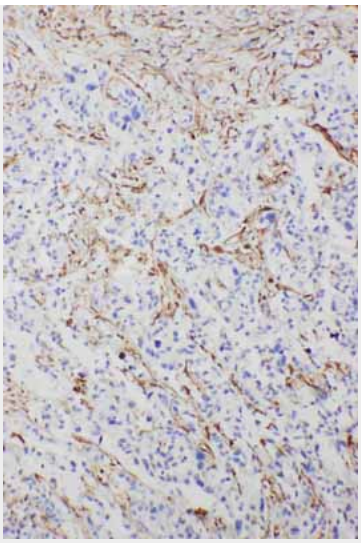
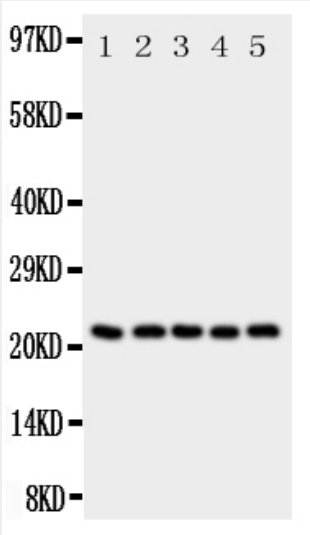
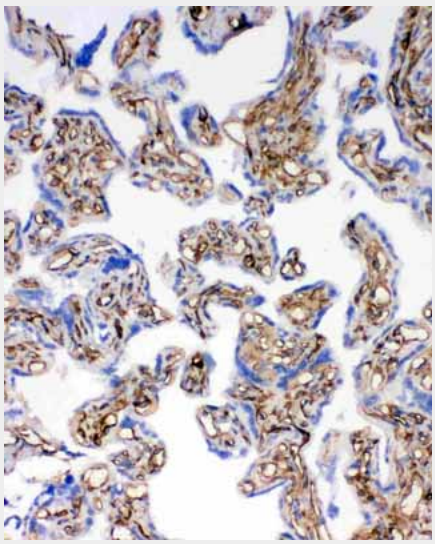


Anti-Syndecan 2 antibody, ABO11200, IHC(P)IHC(P): Human Liver Cancer Tissue



Anti-Syndecan 2 antibody, ABO11200, Western blottingLane 1: HEPG Cell LysateLane 2: A549 Cell LysateLane 3: U87 Cell LysateLane 4: SKOV Cell ysateLane 5: JURKAT Cell Lysate



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Anti-Syndecan 2 antibody, ABO11200, IHC(F)IHC(F): Human Placenta Tissue

Anti-Syndecan 2 Antibody - Background

SDC2(Syndecan-2) also known as SYND2, HSPG1, HSPG, and Fibroglycan, is a protein that in humans is encoded by the SDC2 gene. The protein encoded by this gene is a transmembrane(type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. By Southern hybridization to a panel of human-mouse somatic cell hybrid DNA and by in situ hybridization, Marynen et al.(1989) showed that the heparan sulfate proteoglycan core protein maps to 8q22-q24.(Heparan sulfate proteoglycan of basement membrane appears to be encoded by a gene on human chromosome 1.Bobardt et al.(2003) demonstrated that syndecans, including SDC2, can function as in trans HIV receptors via binding of HIV-1 gp120 to the syndecan heparan sulfate chains. Flow cytometric analysis demonstrated SDC expression on endothelial cells. HIV bound to SDC on endothelial cell lines maintained its infectivity for at least 1 week, compared with less than 1 day for unbound virus. Bobardt et al.(2003) suggested that SDC-rich endothelial cells lining the vasculature can provide a microenvironment that boosts HIV replication in T cells.