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

Anti-HSPG2 Picoband Antibody

Catalog # ABO11968

Specification

Anti-HSPG2 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P98160
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Basement membrane-specific heparan sulfate proteoglycan core protein(HSPG2) detection. Tested with WB, IHC-P in Human.

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

Anti-HSPG2 Picoband Antibody - Additional Information

Gene ID 3339

Other Names
Basement membrane-specific heparan sulfate proteoglycan core protein, HSPG, Perlecan, PLC, Endorepellin, LG3 peptide, HSPG2

Calculated MW
468830 MW KDa

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

Subcellular Localization
Secreted, extracellular space, extracellular matrix, basement membrane.

Tissue Specificity
Found in the basement membranes.

Protein Name
Basement membrane-specific heparan sulfate proteoglycan core protein

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

Immunogen
E.coli-derived human HSPG2 recombinant protein (Position: F524-K701). Human HSPG2 shares 86% amino acid (aa) sequence identity with mouse HSPG2.

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
Contains 4 EGF-like domains.

Anti-HSPG2 Picoband Antibody - Protein Information

Name HSPG2

Function
Integral component of basement membranes. Component of the glomerular basement membrane (GBM), responsible for the fixed negative electrostatic membrane charge, and which provides a barrier which is both size- and charge-selective. It serves as an attachment substrate for cells. Plays essential roles in vascularization. Critical for normal heart development and for regulating the vascular response to injury. Also required for avascular cartilage development. [LG3 peptide]: Has anti-angiogenic properties that require binding of calcium ions for full activity.

Cellular Location
Secreted, extracellular space, extracellular matrix, basement membrane. Secreted

Tissue Location
Detected in cerebrospinal fluid, fibroblasts and urine (at protein level).

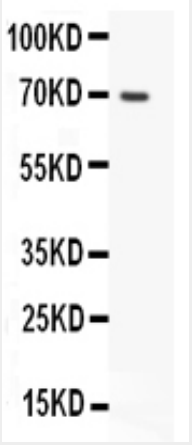
Anti-HSPG2 Picoband Antibody - Protocols

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

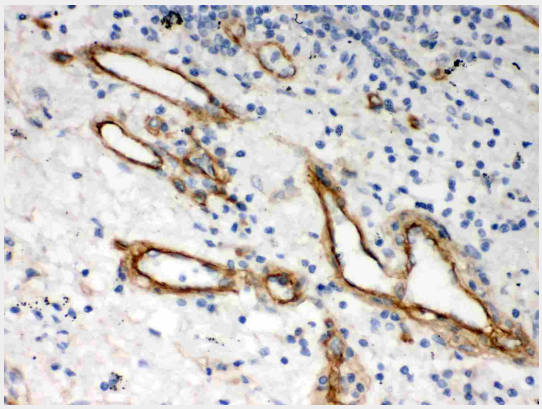
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HSPG2 Picoband Antibody - Images

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



Anti-HSPG2 Picoband antibody, ABO11968, Western blottingAll lanes: Anti HSPG2 (ABO11968) at 0.5ug/mlWB: Recombinant Human HSPG2 Protein 0.5ngPredicted bind size: 69KDObserved bind size: 69KD



Anti-HSPG2 Picoband antibody, ABO11968,IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-HSPG2 Picoband Antibody - Background

Perlecan (PLC) also known as HSPG2, is a protein that in humans is encoded by the HSPG2 gene. It is mapped to 1p36.12. Perlecan is highly conserved across species and the available data indicate that it has evolved from ancient ancestors by gene duplication and exonshuffling. Perlecan is a key component of the vascular extracellular matrix, here it interacts with a variety of other matrix components and helps to maintain the endothelial barrier function. It is a potent inhibitor of smooth muscle cell proliferation and is thus thought to help maintain vascular homeostasis. Perlecan can also promote growth factor (e.g., FGF2) activity and thus stimulate endothelial growth and re-generation.