

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 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.

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

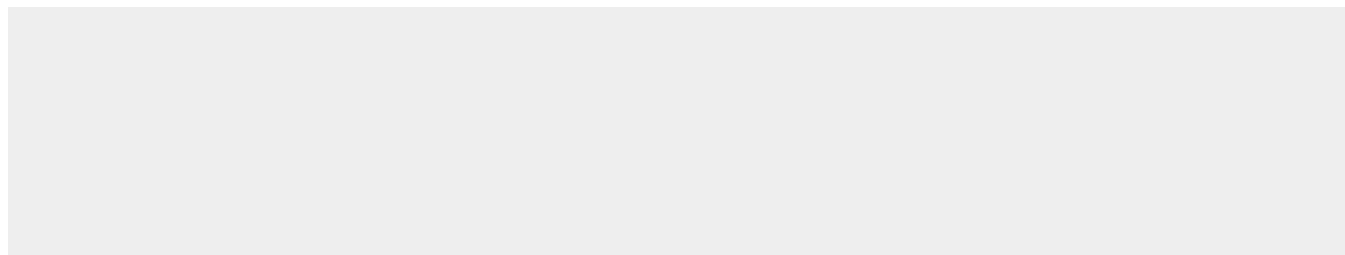
Tissue Location

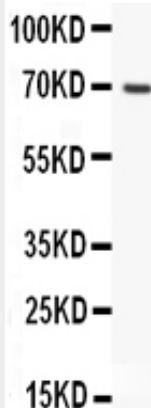
Detected in cerebrospinal fluid, fibroblasts and urine (at protein level).

Anti-HSPG2 Picoband Antibody - Protocols

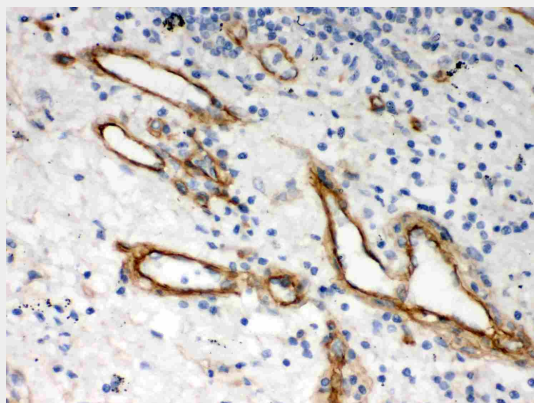
Provided below are standard protocols that you may find useful for product applications.

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

Anti-HSPG2 Picoband Antibody - Images



Anti-HSPG2 Picoband antibody, ABO11968, Western blotting All lanes: Anti HSPG2 (ABO11968) at 0.5ug/ml WB: Recombinant Human HSPG2 Protein 0.5ng Predicted bind size: 69KD Observed 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 exon shuffling. 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.