

**Anti-HSPG2 Picoband Antibody**  
**Catalog # ABO11968****Specification**

---

**Anti-HSPG2 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P98160</a>
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<br>Western blot, 0.1-0.5 µg/ml, Human<br>

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

**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

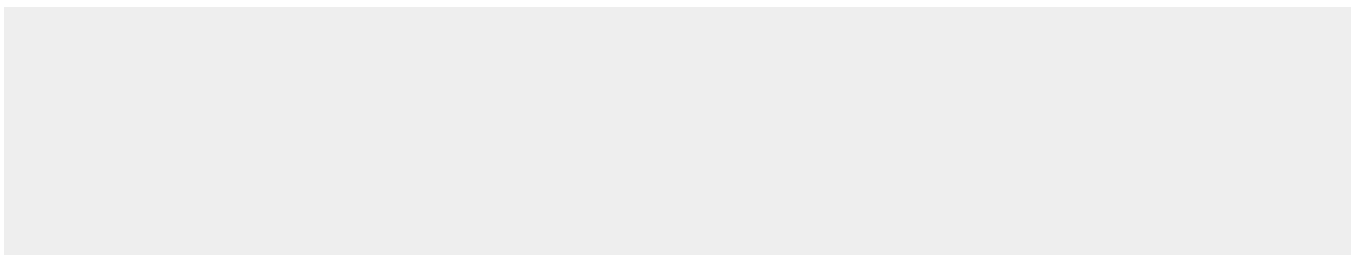
**Tissue Location**

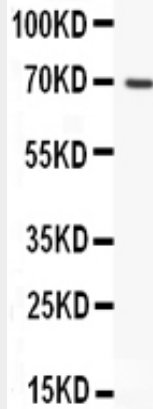
Detected in cerebrospinal fluid, fibroblasts and urine (at protein level).

**Anti-HSPG2 Picoband Antibody - Protocols**

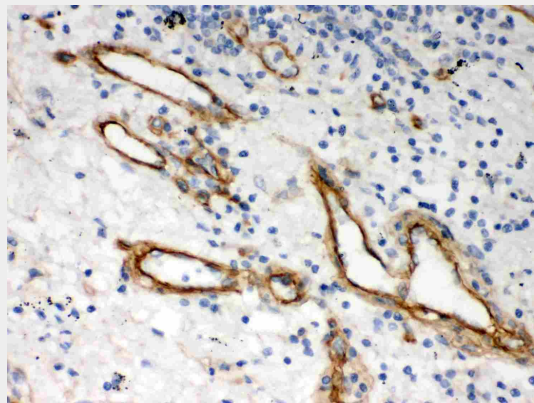
Provided below are standard protocols that you may find useful for product applications.

- [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.