BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Heparan Sulfate Proteoglycan 2/HSPG2 Antibody Picoband®

Catalog Number: PB9277

About HSPG2

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.

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Overview

Product Name	Anti-Heparan Sulfate Proteoglycan 2/HSPG2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Heparan Sulfate Proteoglycan 2/HSPG2 Antibody Picoband® catalog # PB9277. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P98160

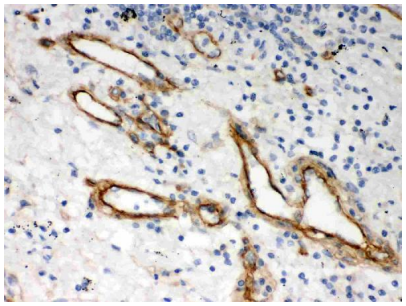
Technical Details

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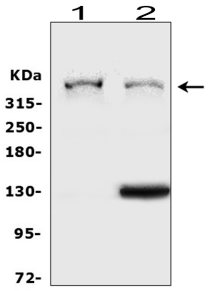
Immunogen	E.coli-derived human HSPG2 recombinant protein (Position: F524-K701). Human HSPG2 shares 86% amino acid (aa) sequence identity with mouse HSPG2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

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Anti-Heparan Sulfate Proteoglycan 2/HSPG2 Antibody Picoband® (PB9277) Images



Anti-HSPG2 Picoband antibody, PB9277,IHC(P)IHC(P): Human Lung Cancer Tissue



Western blot analysis of HSPG2 using anti-HSPG2 antibody (PB9277). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Caco-2 whole cell lysates, Lane 2: human A549 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HSPG2 antigen affinity purified polyclonal antibody (Catalog # PB9277) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HSPG2 at approximately 469KD. The expected band size for HSPG2 is at 469KD.

1 Publications Citing This Product

1. PubMed ID: , Parallel Murine and Human Plaque Proteomics Reveals Pathways of Plaque Rupture

Visit bosterbio.com/anti-hspg2-picoband-trade-antibody-pb9277-boster.html to see all 1 publications.

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