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Datasheet for ABIN3042466 anti-HSPG2 antibody (AA 524-701)

2 Images



Overview

Quantity:	100 µg
Target:	HSPG2
Binding Specificity:	AA 524-701
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPG2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Basement membrane-specific heparan sulfate proteoglycan core protein(HSPG2) detection. Tested with WB, IHC-P in Human.
Immunogen:	E.coli-derived human HSPG2 recombinant protein (Position: F524-K701). Human HSPG2 shares 86% amino acid (aa) sequence identity with mouse HSPG2.
lsotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Basement membrane-specific heparan sulfate proteoglycan core protein(HSPG2) detection. Tested with WB, IHC-P in Human. Gene Name: heparan sulfate proteoglycan 2 Protein Name: Basement membrane-specific heparan sulfate proteoglycan core protein
Purification:	Immunogen affinity purified.

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Target Details	
Target:	HSPG2
Alternative Name:	HSPG2 (HSPG2 Products)
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. Synonyms: Basement membrane specific heparan sulfate proteoglycan core protein antibody Endorepellin (domain V region) antibody Heparan Sulfate Proteoglycan antibody HspG antibody Hspg2 antibody LG3 peptide antibody Perlecan antibody HSPG 12 antibody PGBM_HUMAN antibody PLC antibody Schwartz Jampel syndrome 1
Gene ID:	3339
UniProt:	P98160
Pathways:	Glycosaminoglycan Metabolic Process, Lipid Metabolism
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for HSPG2 is approximately 0.1 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

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Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.

Images

100KD -	Western Blotting
70KD — —	Image 1. Anti-HSPG2 Picoband antibody, Western blotting
CEN D	All lanes: Anti HSPG2 at 0.5ug/ml WB: Recombinant Human
55KD-	HSPG2 Protein 0.5ng Predicted bind size: 69KD Observed
35KD-	bind size: 69KD
25KD -	
LUND	
15KD -	



Immunohistochemistry (Paraffin-embedded Sections)

Image 2.

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