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PRODUCT DATASHEET

Anti-Perlecan Antibody

Product Details

Available Variants	100 uL (SKU:CSI 001-74-010) 400 uL (SKU:CSI 001-74-04) 1000 uL (SKU:CSI 001-74-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	A74
Gene Name	HSPG2
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IHC, IP, WB
Dilution Ranges	WB: 1:100
Species Reactivity	Bovine, Human
Immunogen	Bovine corneal endothelial cells
Specificity	CSI 001-74 is highly specific for perlecan. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin). Epitope is located in domain V
Molecular Weight	400-450 kDa
Storage	2-8°C without exposure to light
UniProt ID	P98160 UniProt Summary: 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 (PubMed:12435733, PubMed:15591058, PubMed:19789387). In muscle, it is essential for localizing acetylcholinesterase (AChE) at the neuromuscular junctions (NMJ), most probably acting as an adapter that links the acetylcholinesterase collagenic tail peptide (COLQ) to alpha-dystroglycan, and is therefore involved in the down-regulation of colinergic synaptic transmission (By similarity). {ECO:0000250|UniProtKB:Q05793, ECO:0000269|PubMed:12435733, ECO:0000269|PubMed:15591058, ECO:0000269|PubMed:19789387}.; [Endorepellin]: Anti-angiogenic and anti-tumor peptide that inhibits endothelial cell migration, collagen-induced endothelial tube morphogenesis and blood vessel growth in the chorioallantoic membrane. Blocks endothelial cell adhesion to fibronectin and type I collagen. Anti-tumor agent in neovascularization. Interaction with its ligand, integrin alpha2/beta1, is required for the anti-angiogenic properties. Evokes a reduction in phosphorylation of receptor tyrosine kinases via alpha2/beta1 integrin-mediated activation of the tyrosine phosphatase, PTPN6.; [LG3 peptide]: Has anti-angiogenic properties that require binding of calcium ions for full activity.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	3339

Product Images



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