

Anti-Perlecan (bovine, human)

CAT. NO. CSI 001-74

OVERVIEW

Product Name	Anti-Perlecan (bovine, human)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	A74
Tested Applications	ELISA, WB, IHC, IP, AP		

SPECIFICITY

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		
Immunogen	Bovine corneal endothelial cells	Gene ID	444872, 3339
Target	Perlecan is an extracellular matrix proteoglycan. It has a large core protein of 400-450 kDa and is often produced with heparan sulfate side chains. Perlecan is found in basement membranes where it contributes to the permeability characteristics, serves as a substrate for vascular cells and binds growth factors involved in vascular remodelling.		

Species Reactivity POSITIVE	Bovine, Human	Species Reactivity NEGATIVE	Not determined
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PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA	CSI 001-74 can be used in ELISA.
WB	In Western blotting a dilution guideline of 1/100 has proved successful. (1)
IHC	CSI 001-74 can be used in immunostaining of frozen PLP-fixed sections of bovine and human tissues.
IP	CSI 001-74 can be used in immunoprecipitation.
AP	AP: CSI 001-74 can be used in affinity chromatography, in conjunction with CSI 001-71 to separate recombinant domain I from full-length perlecan. (1)

SCIENTIFIC REFERENCES

- Whitelock JM, Murdoch AD, Iozzo RV, Underwood PA (1996) The degradation of human endothelial cell-derived perlecan, and release of bound bFGF by stromelysin, plasmin and heparanases. J Biol Chem 271:10079-10086.

CONDITIONS

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