

Anti-Perlecan (bovine, human)

CAT. NO. CSI 001-76

OVERVIEW

Product Name	Anti-Perlecan (bovine, human)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	A76
Tested Applications	ELISA, WB, IHC, IP		

SPECIFICITY

Specificity	CSI 001-76 is highly specific for perlecan. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin).		
Immunogen	Lysed bovine corneal endothelial cells and extracellular matrix	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. (1)		
Species Reactivity POSITIVE	Bovine, Human	Species Reactivity NEGATIVE	Not determined

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 001-76 can be used in ELISA.
WB	CSI 001-76 can be used in Western blotting. (1)
IHC	CSI 001-76 can be used in immunostaining of frozen PLP-fixed sections of bovine and human tissues.
IP	CSI 001-76 can be used in immunoprecipitation.

SCIENTIFIC REFERENCES

- Whitelock JM, Graham LD, Melrose J, Murdoch AD, Iozzo R, Underwood PA (1999) Human perlecan immunopurified from different endothelial cell sources has different adhesive properties for vascular cells. *Matrix Biol* 18:163-178.
- 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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