

Anti-Perlecan (bovine, human)

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO.

CSI 001-71

Clone: A71

SPECIFICITY	CSI 001-71 is highly specific for perlecan. There is no evidence for cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin).
IMMUNOGEN	Bovine corneal endothelial cells
TESTED APPLICATIONS	ELISA, WB, IHC-F, IHC-P, IP, AP
SPECIES REACTIVITY (POSITIVE)	Bovine, human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Epitope is located in domain I

PRESENTATION

Content:	Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: CSI 001-71 can be used in ELISA
WB: In Western blotting a dilution guideline of 1/100 has proved successful (1,2).
IHC: CSI 001-71 can be used in immunostaining of frozen PLP-fixed sections of bovine and human tissues.
AP: CSI 001-71 can be used in affinity chromatography to separate recombinant domain I from tissue culture fluid (1).
IP: CSI 001-71 can be used in immunoprecipitation

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 remodeling.

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.
- Muthusamy, A, Cooper, CR, Gomes, RR JR. (2010) Soluble perlecan domain i enhances vascular endothelial growth factor-165 activity and receptor phosphorylation in human bone marrow endothelial cells, BMC Biochem 11:43. doi: 10.1186/1471-2091-11-43.

CONDITIONS

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