

Anti-Perlecan (bovine, human)

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO.

CSI 001-76

Clone: A76

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
TESTED APPLICATIONS	ELISA, WB, IHC-F, IHC-P, IP, AP
SPECIES REACTIVITY (POSITIVE)	Bovine, human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Not determined

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 001-76 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.
AP: CSI 001-76 is more sensitive than CSI 001-71 or CSI 001-74 in ELISA (2).
IP: CSI 001-76 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 (1).

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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