

**Anti-Perlecan (bovine)
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

CSI 001-74

Clone: A74

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

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.

ANTIGEN

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 (2).

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).

CSI 001-74 cross-reacts with human perlecan. Other species have not been tested.

EPI TOPE SPECIFICITY

Epitope is located in domain V

REACTIVITY

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

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

SP2/O

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injection

APPLICATION

| Method | Usability | References |
|----------------------|-----------|------------|
| ELISA | Yes | 1 |
| Immunoblotting | Yes | 1 |
| Immunohistochemistry | Yes | |

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.
- 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.
- Olsen BR (1999) Life without perlecan has its problems. *J Cell Biol* 147:909-912.

CONDITIONS

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