ANTIBODYSHOP®

PRODUCT SPECIFICATION
04/01/2012

Anti-Perlecan (bovine)
Mouse monoclonal antibody

PRODUCT NO. **CSI 001-76**

Subclass: IgG1/k

Clone: A76

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: 4-8ºC 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

Lysed bovine corneal endothelial cells and extracellular matrix

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).
CSI 001-76 cross-reacts with human perlecan. Other species have not been tested.

EPITOPE SPECIFICITY

Not determined

REACTIVITY

CSI 001-76 can be used in immunoprecipitation, ELISA and immunostaining of frozen PLP-fixed sections of bovine and human tissues. CSI 001-76 is more sensitive than CSI 001-71 or CSI 001-74 in ELISA.

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	2
Immunohistochemistry	Yes	

REFERENCES

1. 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.
2. 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.
3. Olsen BR (1999) Life without perlecan has its problems. J Cell Biol 147:909-912.

BioPorto Diagnostics A/S • Grusbakken 8 • DK-2820 Gentofte • Denmark • info@bioporto.com • www.bioporto.com
Phone: +45 4529 0000 • Fax: +45 4529 0001 • CVR / Vat: DK-1864 5882