ANTIBODYSHOP®

PRODUCT SPECIFICATION
04/01/2012

Anti-Vitronectin (human, dog, cat, goat, horse, bovine) Mouse monoclonal antibody

PRODUCT NO.

CSI 003-23

Subclass: IgG1/k

Clone: HV23

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

Vitronectin is a plasma glycoprotein that circulates in the blood. Vitronectin is circulating as a mixture of both 75 kDa and 65 kDa forms. Vitronectin is a major cell adhesive glycoprotein and is a common component of extracellular matrix and plasma. It competes effectively with other plasma proteins and is often involved in cell attachment, regulation of blood coagulation and immune responses. It has similar tissue distribution to fibronectin and also its integrin receptor recognises fibronectin (2).

IMMUNOGEN

Human vitronectin purified from plasma by heparin-affinity chromatography

SPECIFICITY

CSI 003-23 is highly specific for vitronectin. There is no evidence for cross-reactivity with other connective tissue proteins (fibronectin, elastin, collagen, laminin).
CSI 003-23 cross-reacts with vitronectin from cat, dog, goat, cow and to a lesser extent with horse.

EPITOPE SPECIFICITY

Epitope is located in the somatomedin B domain

REACTIVITY

CSI 003-23 binds nearly as well to native vitronectin as to denatured. CSI 003-23 is a potent inhibitor of integrin-mediated cell adhesion to vitronectin and a moderate inhibitor of PAI-1 binding. CSI 003-23 also binds to vitronectin in ELISA when vitronectin is coated directly onto the microtiter well. In Western blotting a dilution guideline of 1/50 and 1/200 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, 2
Immunoblotting	Yes	1
Immunohistochemistry	Not determined	

REFERENCES

1. Morris CA, Underwood PA, Bean PA, Sheehan M, Charlesworth JA (1994) Relative topography of biologically active domains of human vitronectin. Evidence from monoclonal antibody epitope and denaturation studies. J Biol Chem 269:23845-23852.
2. Underwood PA, Kirkpatrick A, Mitchell SM (2002) New insights into heparin binding to vitronectin: studies with monoclonal antibodies. Biochem J 365:57-67.

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