ANTIBODYSHOP®

PRODUCT SPECIFICATION

Anti Vitronectin (human)
Mouse monoclonal antibody

Subclass: IgG1/k

PRODUCT NO. **CSI 003-21**

PRESENTATION

Preparation:	Protein-A/G purified
Content:	Available in 200 µL and 1 mL, 1 mg/mL
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Storage:	In the dark at 4-8ºC

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 003-21 is highly specific for vitronectin. There is no evidence for cross-reactivity with other connective tissue proteins (fibronectin, elastin, collagen, laminin).
CSI 003-21 cross-reacts with vitronectin from cat, dog, rabbit and to a lesser extent with cow.

EPITOPE SPECIFICITY

Epitope is located within a cyanogen bromide cleavage fragment comprising aa 1-310

REACTIVITY

CSI 003-21 binds nearly as well to native vitronectin as to denatured. It interferes with vitronectin-inhibition of the lysis of terminal complement complexes (TCC) and it inhibits vitronectin binding of PAI-1.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

SP2/O.

IMMUNIZATION

Female BALB/c mice immunized i.p. with immunogen diluted in saline

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:40,000	1, 2
Immunoblotting	Yes	1:50	
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.05 µg/ml. Users should determine the optimal dilutions for their own purposes.

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.

CONDITIONS