

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

Subclass: IgG1/k

CAT. NO.

CSI 003-23

Clone: HV23

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 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.

IMMUNOGEN Human vitronectin purified from plasma by heparin-affinity chromatography

TESTED APPLICATIONS ELISA, WB

SPECIES REACTIVITY (POSITIVE) Human, dog, cat, goat, bovine, horse

SPECIES REACTIVITY (NEGATIVE) Not determined

EPITOPE SPECIFICITY Epitope is located in the somatomedin B domain

PRESENTATION

Content: Available in 200 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 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, 2).
WB: CSI 003-23 can be used in Western blotting (1).

TARGET 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).

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

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