

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

CAT. NO. CSI 003-23

OVERVIEW

Product Name	Anti-Vitronectin (human, dog, cat, goat, horse, bovine)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	HV23
Tested Applications	ELISA, WB		

SPECIFICITY

Specificity	<p>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.</p> <p>Epitope is located in the somatomedin B domain</p>		
Immunogen	Human vitronectin purified from plasma by heparin-affinity chromatography	Gene ID	7448, 101100765, 480621, 100861216, 507525, 100059034
Target	<p>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 recognizes fibronectin. (2)</p>		
Species Reactivity POSITIVE	Human, Cat (feline), Dog, Goat (caprine), Bovine, Horse	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

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)

SCIENTIFIC 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.

CONDITIONS

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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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