

**Anti-Vitronectin (bovine, sheep)**

**Mouse monoclonal antibody**

Subclass: IgG1/k

CAT. NO.

**CSI 004-27**

Clone: A27

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**SPECIFICITY** CSI 004-27 is highly specific for vitronectin. There is no evidence for cross-reactivity with other connective tissue proteins (fibronectin, elastin, collagen, laminin).

**IMMUNOGEN** Lysed bovine corneal endothelial cells and extracellular matrix

**TESTED APPLICATIONS** ELISA, WB, IHC-F, IHC-P, AP

**SPECIES REACTIVITY (POSITIVE)** Bovine, sheep

**SPECIES REACTIVITY (NEGATIVE)** Human, horse

**EPITOPE SPECIFICITY** Not determined

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**PRESENTATION**

**Content:** Available in 400 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.

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**APPLICATION**

**ELISA:** CSI 004-27 is suitable for ELISA (1, 2, 3).

**WB:** CSI 004-27 is suitable for immunoblotting.

**IHC:** CSI 004-27 immunostaining of frozen PLP-fixed sections of bovine tissues.

**AP:** The antibody can be used as an affinity purification reagent of vitronectin from bovine plasma or serum and to quantitatively deplete plasma or serum of vitronectin. It can also be used to probe vitronectin conformation.

**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 recognizes fibronectin (1).

**REFERENCES**

1. Underwood PA, Bennett FA (1989) A comparison of the biological activities of the cell-adhesive proteins vitronectin and fibronectin. *J Cell Sci* 93:641-649.
2. Underwood PA, Steele JG, Dalton BA, Bennet FA (1990). Solid phase monoclonal antibodies. A novel method of directing the function of biologically active molecules by presenting a specific concentration. *J Immunol Methods* 127:91-102.
3. Underwood PA, Bean PA, Mitchell SM, Whitelock JM (2001) Specific affinity depletion of cell adhesion molecules and growth factors from serum. *J Immunol Methods* 247:217-224.

**CONDITIONS**

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