

Mouse Monoclonal Antibody to Human Vitronectin

Cat. No. CAB11624MH Lot. No. (See product label)

SPECIFICATION

Product Overview Mouse Monoclonal Antibody to Human Vitronectin

Species Human

Source Mouse

Antigen Description

Vitronectin, also known as VTN, is a member of the pexin family. It is an abundant glycoprotein found in serum the extracellular matrix and promotes cell adhesion and spreading. Vitronectin is a secreted protein and exists in either a single chain form or a cleaved, two chain form held together by a disulfide bond. Vitronectin consists of three domains: the N-terminal Somatomedin B domain, a central domain with hemopexin homology, and a C-terminal domain also with hemopexin homology. The Somatomedin B domain is a close knit disulfide knot and binds to plasminogen activator inhibitor-1 (PAI-1) and stabilizes it. An RGD sequence which is a binding site for membrane bound integrins is also found in Vitronectin. As a component of platelets, Vitronectin serves to regulate proteolysis initiated by plasminogen activation, interacts with the urokinase receptor, and binds to several serpin serine protease inhibitors as well. Accordingly, Vitronectin is suggested to be involved in hemostasis, cell migration, as well as tumor malignancy.

Specificity Human Vitronectin / VTN. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

Immunogen Recombinant human VTN protein

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Isotype	Mouse IgG2a
Clone	6H12C11E8
Applications	Western blot; ELISA
Dilution	<p>Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human vitronectin in WB. Using a DAB detection system, the detection limit for human vitronectin is approximately 2 ng/lane under non-reducing conditions and reducing conditions</p> <p>Direct ELISA: This antibody can be used at 0.5 - 1 µg/mL with the appropriate secondary reagents to detect human vitronectin. The detection limit for human vitronectin is approximately 0.039 ng/well</p>
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant human Vitronectin. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	VTN vitronectin [Homo sapiens]
Official Symbol	VTN

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Synonyms	VTN; vitronectin; vitronectin (serum spreading factor, somatomedin B, complement S protein); complement S protein; serum spreading factor; somatomedin B; VN; epibolin; S-protein; complement S-protein; serum-spreading factor; V75; VNT;
Gene ID	7448
mRNA Refseq	NM_000638
Protein Refseq	NP_000629
MIM	193190
UniProt ID	P04004
Chromosome Location	17q11.2
Pathway	ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; FOXA1 transcription factor network, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Inflammatory Response Pathway, organism-specific biosystem;
Function	extracellular matrix binding; heparin binding; integrin binding; polysaccharide binding; scavenger receptor activity;

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