



Vitronectin 75 (VN58-1): sc-59807

BACKGROUND

Fibronectin and Vitronectin are extracellular matrix glycoproteins that are present on most cell surfaces, in extracellular fluids, and in plasma. Both Fibronectin and Vitronectin have been shown to be involved in various functions including cell adhesion, cell motility and wound healing. Vitronectin contains an RGD (Arg-Gly-Asp acid) sequence that is present in many cell adhesion ligands. The RGD sequence has been shown to be essential for cell adhesion. Increased expression of Vitronectin, integrins and plasminogen activators has been observed in migrating cells during wound healing. Vitronectin has been shown to enhance smooth cell migration, and PAI-1 has been shown to bind to Vitronectin with high affinity, resulting in the blocking of smooth cell migration. Glycosaminoglycans, proteins involved in the anchoring of Vitronectin to the extracellular matrix, have been shown to stimulate the cleavage of Vitronectin by plasmin. This cleavage reduces the affinity of Vitronectin for PAI-1.

REFERENCES

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8. Chauhan, A.K. and Moore, T.L. 2006. Presence of plasma complement regulatory proteins clusterin (Apo J) and Vitronectin (S40) on circulating immune complexes (CIC). *Clin. Exp. Immunol.* 145: 398-406.
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CHROMOSOMAL LOCATION

Genetic locus: VTN (human) mapping to 17q11.2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

Vitronectin 75 (VN58-1) is a mouse monoclonal antibody raised against Vitronectin 75 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Vitronectin 75 (VN58-1) is recommended for detection of Vitronectin 75 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Vitronectin siRNA (h): sc-36820, Vitronectin shRNA Plasmid (h): sc-36820-SH and Vitronectin shRNA (h) Lentiviral Particles: sc-36820-V.

Molecular Weight of Vitronectin single chain: 75 kDa.

Molecular Weight of Vitronectin cleaved two-chain forms: 65/10 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

SELECT PRODUCT CITATIONS

1. Huang, J.S., et al. 2009. A Vitronectin M381T polymorphism increases risk of hemangioblastoma in patients with VHL gene defect. *J. Mol. Med.* 87: 613-622.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.