**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**


**CHROMOSOMAL LOCATION**

Genetic locus: VTN (human) mapping to 17q11.2; Vtn (mouse) mapping to 11 B5.

**SOURCE**

Vitronectin 65/75 (D-8) is a mouse monoclonal antibody raised against amino acids 1-270 mapping at the N-terminus of Vitronectin 75 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Vitronectin 65/75 (D-8) is available conjugated to agarose (sc-74484 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74484 HRP), 200 μg/ml, for WB, HRP (sc-74484 PE), fluorescein (sc-74484 FITC), Alexa Fluor® 488 (sc-74484 AF488), Alexa Fluor® 546 (sc-74484 AF546), Alexa Fluor® 594 (sc-74484 AF594) or Alexa Fluor® 647 (sc-74484 AF647), 200 μg/ml, for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-74484 AF680) or Alexa Fluor® 790 (sc-74484 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**STORAGE**

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

**APPLICATIONS**

Vitronectin 65/75 (D-8) is recommended for detection of Vitronectin 65 and Vitronectin 75 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


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, Caco-2 cell lysate: sc-2262 or Hep G2 cell lysate: sc-2227.

**REFERENCES**


**RESEARCH USE**

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

**PROTOCOLS**

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA