# Vitronectin 75 (GMA-900): sc-65972



The Power to Overtin

## **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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## **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 (GMA-900) is a mouse monoclonal antibody raised against Vitronectin 75 of human origin.

## **PRODUCT**

Each vial contains 100  $\mu g \ lg G_{2a}$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## **APPLICATIONS**

Vitronectin 75 (GMA-900) is recommended for detection of Vitronectin 75 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

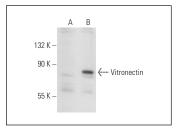
Suitable for use as control antibody for Vitronectin siRNA (h): sc-36820, Vitronectin shRNA Plasmid (h): sc-36820-SH and Vitronectin shRNA (h) Lentiviral Particles: sc-36820-V.

Molecular Weight of Vitronectin 75 single chain: 75 kDa.

Molecular Weight of Vitronectin 75 cleaved two-chain forms: 65/10 kDa.

Positive Controls: Vitronectin (h2): 293T Lysate: sc-170448.

# **DATA**



Vitronectin 75 (GMA-900): sc-65972. Western blot analysis of Vitronectin expression in non-transfected: sc-117752 (A) and human Vitronectin transfected: sc-170448 (B) 293T whole cell lysates.

#### **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.

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