

# VIP36 (H-90): sc-67131

## BACKGROUND

Lectin mannose-binding 1, also designated vesicular integral-membrane protein (VIP36) and lectin mannose-binding 2, also designated ERGIC-53 comprise a family of membrane bound, ubiquitous proteins involved in the selective transport of newly synthesized glycoproteins from the endoplasmic reticulum (ER) to the ER-Golgi intermediate compartment (ERGIC). VIP36 acts as an intracellular lectin in the early secretory pathway. It is involved in the sorting and transport of glycoproteins carrying high mannose-type glycans. ERGIC-53, a mannose-specific lectin, recognizes sugar residues of glycoproteins and glycolipids. It mediates the sorting and recycling of proteins and/or lipids. Null expression of ERGIC-53, also designated LMAN1, results in a rare autosomal recessive bleeding disorder that causes combined deficiency of both coagulation factors V and VIII.

## CHROMOSOMAL LOCATION

Genetic locus: LMAN2 (human) mapping to 5q35.3; Iman2 (mouse) mapping to 13 B1.

## SOURCE

VIP36 (H-90) is a rabbit polyclonal antibody raised against amino acids 266-355 mapping at the C-terminus of VIP36 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

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

## RESEARCH USE

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

## APPLICATIONS

VIP36 (H-90) is recommended for detection of VIP36 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

VIP36 (H-90) is also recommended for detection of VIP36 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for VIP36 siRNA (h): sc-45242, VIP36 siRNA (m): sc-45243, VIP36 shRNA Plasmid (h): sc-45242-SH, VIP36 shRNA Plasmid (m): sc-45243-SH, VIP36 shRNA (h) Lentiviral Particles: sc-45242-V and VIP36 shRNA (m) Lentiviral Particles: sc-45243-V.

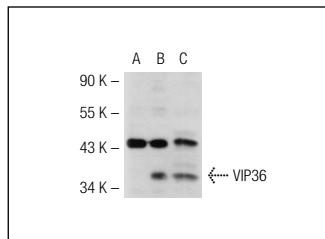
Molecular Weight of VIP36: 36 kDa.

Positive Controls: NRK whole cell lysate: sc-364197 or VIP36 (m): 293T Lysate: sc-124567.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



VIP36 (H-90): sc-67131. Western blot analysis of VIP36 expression in non-transfected 293T: sc-117752 (A), mouse VIP36 transfected 293T: sc-124567 (B) and NRK (C) whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **VIP36 (264C4a): sc-130026**, our highly recommended monoclonal alternative to VIP36 (H-90).