

VEPH1 (H-172): sc-68363

BACKGROUND

Ventricular zone-expressed PH domain-containing protein homolog 1 (VEPH1), also known as KIAA1692 or protein melted, is an 833 amino acid protein belonging to the MELT/VEPH family. VEPH1 is a peripheral membrane protein localized to the cytoplasmic side. VEPH1 has one PH domain which is required for the membrane targeting of the protein. The human gene encoding VEPH1 is 76% homologous to the *Drosophila* VEPH1 gene, which encodes a protein that acts as a regulator of the Insulin signaling pathway. It is thought that this role of VEPH1 is conserved across species. VEPH1 exists as three isoforms produced by alternative splicing.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VEPH1 (human) mapping to 3q25.31; Veph1 (mouse) mapping to 3 E1.

SOURCE

VEPH1 (H-172) is a rabbit polyclonal antibody raised against amino acids 47-218 mapping near the N-terminus of VEPH1 of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

VEPH1 (H-172) is recommended for detection of VEPH1 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).

VEPH1 (H-172) is also recommended for detection of VEPH1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for VEPH1 siRNA (h): sc-63212, VEPH1 siRNA (m): sc-63213, VEPH1 shRNA Plasmid (h): sc-63212-SH, VEPH1 shRNA Plasmid (m): sc-63213-SH, VEPH1 shRNA (h) Lentiviral Particles: sc-63212-V and VEPH1 shRNA (m) Lentiviral Particles: sc-63213-V.

Molecular Weight of VEPH1: 95 kDa.

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.

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 or our catalog for detailed protocols and support products.