

GAPVD1 (S-13): sc-167954

BACKGROUND

GAPVD1 (GTPase-activating protein and VPS9 domain-containing protein 1), also known as RAP6 (Rab5-activating protein 6) and GAPex-5, is a 1478 amino acid peripheral membrane protein that acts both as a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF). GAPVD1 participates in many processes such as Insulin receptor internalization, Glut4 trafficking and endocytosis. In addition, depletion of GAPVD1 leads to delayed EGFR degradation by mediating receptor ubiquitination through its RGD domain, suggesting that it may be an important mediator of carcinogenesis resulting from Ras protein mutations. There are six isoforms of GAPVD1 that are produced as a result of alternative splicing events.

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CHROMOSOMAL LOCATION

Genetic locus: GAPVD1 (human) mapping to 9q33.3; Gapvd1 (mouse) mapping to 2 B.

SOURCE

GAPVD1 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GAPVD1 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.

Blocking peptide available for competition studies, sc-167954 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GAPVD1 (S-13) is recommended for detection of GAPVD1 of mouse, rat and 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GAPVD1 (S-13) is also recommended for detection of GAPVD1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for GAPVD1 siRNA (h): sc-92781, GAPVD1 siRNA (m): sc-145326, GAPVD1 shRNA Plasmid (h): sc-92781-SH, GAPVD1 shRNA Plasmid (m): sc-145326-SH, GAPVD1 shRNA (h) Lentiviral Particles: sc-92781-V and GAPVD1 shRNA (m) Lentiviral Particles: sc-145326-V.

Molecular Weight of GAPVD1: 158 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.