

VAM1 (T-19): sc-69532

BACKGROUND

The MAGUK (membrane-associated guanylate kinase homologs) family of proteins contain multiple protein-binding domains and are involved in cell junction organization, tumor suppression and signaling. The MAGUK family is divided into four subfamilies: DLG-like, ZO1-like, p55-like and LIN2-like. Pals2 (protein associated with Lin7 2), also known as MPP6 (membrane protein, palmitoylated 6) and VAM1 (veli-associated MAGUK 1), is a 540 amino acid peripheral membrane guanylate kinase that belongs to the p55-like MAGUK subfamily. Through their PDZ domains, the Pals proteins (1 and 2) bind Veli1 through an amino-terminal region and may therefore play a role in recruiting proteins at synaptic junctions in neurons. Pals2 also contains a central SH3 domain and a C-terminal guanylate kinase-like domain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MPP6 (human) mapping to 7p15.3; Mpp6 (mouse) mapping to 6 B2.3.

SOURCE

VAM1 (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of VAM1 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-69532 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VAM1 (T-19) is recommended for detection of VAM1 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).

VAM1 (T-19) is also recommended for detection of VAM1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for VAM1 siRNA (h): sc-76036, VAM1 siRNA (m): sc-76037, VAM1 shRNA Plasmid (h): sc-76036-SH, VAM1 shRNA Plasmid (m): sc-76037-SH, VAM1 shRNA (h) Lentiviral Particles: sc-76036-V and VAM1 shRNA (m) Lentiviral Particles: sc-76037-V.

Molecular Weight of VAM1: 61 kDa.

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.