

# VAM1 (E-16): sc-69530

## 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 (E-16) 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-69530 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

VAM1 (E-16) 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 (E-16) is also recommended for detection of VAM1 in additional species, including equine, canine, bovine and porcine.

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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.