

MAMDC4 (E-14): sc-164955

BACKGROUND

MAMDC4 (MAM domain containing 4), also known as AEGP (apical endosomal glycoprotein), is a 1,216 amino acid single-pass type I membrane protein that plays a role in the selective transport of ligands and receptors across polarized epithelia. Existing as three alternatively spliced isoforms, MAMDC4 contains three LDL-receptor class A domains and six MAM domains. The gene encoding MAMDC4 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAMDC4 (human) mapping to 9q34.3; Mamdc4 (mouse) mapping to 2 A3.

SOURCE

MAMDC4 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of MAMDC4 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.

Blocking peptide available for competition studies, sc-164955 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAMDC4 (E-14) is recommended for detection of MAMDC4 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); non cross-reactive with MAMDC2.

MAMDC4 (E-14) is also recommended for detection of MAMDC4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MAMDC4 siRNA (h): sc-92792, MAMDC4 siRNA (m): sc-149240, MAMDC4 shRNA Plasmid (h): sc-92792-SH, MAMDC4 shRNA Plasmid (m): sc-149240-SH, MAMDC4 shRNA (h) Lentiviral Particles: sc-92792-V and MAMDC4 shRNA (m) Lentiviral Particles: sc-149240-V.

Molecular Weight of MAMDC4 isoforms: 131/123/104 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.