

MAMDC2 (F-13): sc-138980

BACKGROUND

MAM (meprin/A5-protein/PTP) domains are found in a variety of proteins and have been characterized as homophilic binding sites which promote PTP dimerization at the cell surface. MAMDC2 (MAM domain containing 2), also known as MAM domain-containing proteoglycan (Mamcan) is a 686 amino acid secreted protein that localizes to extracellular matrix. Containing four MAM domains and existing as two alternatively spliced isoforms, MAMDC2 is encoded by a gene located on human chromosome 9q21.12. Chromosome 9 consists of about 145 million bases, 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, familial dysautonomia and certain leukemias are also associated with chromosome 9.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAMDC2 (human) mapping to 9q21.12.

SOURCE

MAMDC2 (F-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MAMDC2 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

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

Blocking peptide available for competition studies, sc-138980 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAMDC2 (F-13) is recommended for detection of MAMDC2 isoforms 1 and 2 of human and rat 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 MAMDC4.

MAMDC2 (F-13) is also recommended for detection of MAMDC2 isoforms 1 and 2 in additional species, including equine and canine.

Suitable for use as control antibody for MAMDC2 siRNA (h): sc-92464, MAMDC2 shRNA Plasmid (h): sc-92464-SH and MAMDC2 shRNA (h) Lentiviral Particles: sc-92464-V.

Molecular Weight of MAMDC2: 78 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.

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.