

FRMD6 (T-12): sc-138008

BACKGROUND

FERM domains are roughly 150 amino acids in length and are found in a number of cytoskeletal-associated proteins such as Ezrin, Radixin, Moesin and 4.1 (erythrocyte membrane protein band 4.1), where they provide a link between cytoskeletal signals and membrane dynamics. FRMD6 (FERM domain containing 6), also known as EX1 or Willin, is a 622 amino acid cytoplasmic and peripheral membrane protein that can co-localize with Actin and exists as 3 alternatively spliced isoforms. Containing one FERM domain within its N-terminus, FRMD6 binds phospholipids and is encoded by a gene mapping to human chromosome 14, which houses over 700 genes and comprises nearly 3.5% of the human genome. Chromosome 14 encodes the presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FRMD6 (human) mapping to 14q22.1; Frmd6 (mouse) mapping to 12 C2.

SOURCE

FRMD6 (T-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of FRMD6 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.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138008 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FRMD6 (T-12) is recommended for detection of FRMD6 of mouse and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other FRMD family members .

FRMD6 (T-12) is also recommended for detection of FRMD6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FRMD6 siRNA (h): sc-92187, FRMD6 siRNA (m): sc-145243, FRMD6 shRNA Plasmid (h): sc-92187-SH, FRMD6 shRNA Plasmid (m): sc-145243-SH, FRMD6 shRNA (h) Lentiviral Particles: sc-92187-V and FRMD6 shRNA (m) Lentiviral Particles: sc-145243-V.

Molecular Weight of FRMD6: 72 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

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