SANTA CRUZ BIOTECHNOLOGY, INC.

MFRP (M-199): sc-67380

BACKGROUND

MFRP (membrane frizzled-related protein) is a single pass type II membrane protein with two cubilin (CUB) domians, two LDL-receptor class A domains, a cysteine-rich domain (CRD) and seven N-glycosylation sites. The C-terminal CRD is related to the Wnt-binding domain of the frizzled family of transmembrane proteins, suggesting that MFRP may act as a Wnt receptor. MFRP is predominantly expressed in retinal pigment epithelial cells, co-localizing to the plasma membrane with CTRP5. MFRP interacts with CTRP5 via its CUB domain and may play a role in the development of the eye. Functional MFRP is necessary for photoreceptor maintenance and appears to regulate the axial length of the eye. Mutations in the gene encoding MFRP can affect various structures in the eye and may result in nanophthalmos 2 (NNO2), an eye disorder characterized by extreme hyperopia.

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CHROMOSOMAL LOCATION

Genetic locus: MFRP (human) mapping to 11q23.3; Mfrp (mouse) mapping to 9 A5.1.

SOURCE

MFRP (M-199) is a rabbit polyclonal antibody raised against amino acids 386-584 mapping within a C-terminal extracellular domain of MFRP of mouse origin.

PRODUCT

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

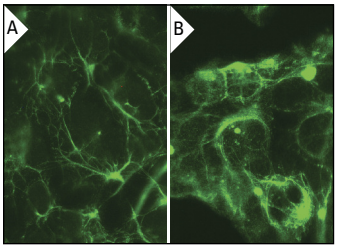
APPLICATIONS

MFRP (M-199) is recommended for detection of MFRP of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for MFRP siRNA (m): sc-77398, MFRP siRNA (h): sc-72373, MFRP shRNA Plasmid (m): sc-77398-SH, MFRP shRNA Plasmid (h): sc-72373-SH, MFRP shRNA (m) Lentiviral Particles: sc-77398-V and MFRP shRNA (h) Lentiviral Particles: sc-72373-V.

Molecular Weight of MFRP: 62 kDa.

DATA



MFRP (M-199): sc-67380. Immunofluorescence staining of methanol-fixed untransfected (**A**) and human MFRP transfected HEK 293 cells (**B**).

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.