



MFRP (m): 293 Lysate: sc-178932

BACKGROUND

MFRP (membrane frizzled-related protein) is a single pass type II membrane protein with two cubilin (CUB) domains, 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 (mouse) mapping to 9 A5.1.

PRODUCT

MFRP (m): 293 Lysate represents a lysate of mouse MFRP transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MFRP (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive MFRP antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.