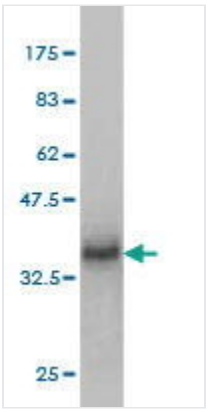
MFRP Antibody – Mouse Monoclonal

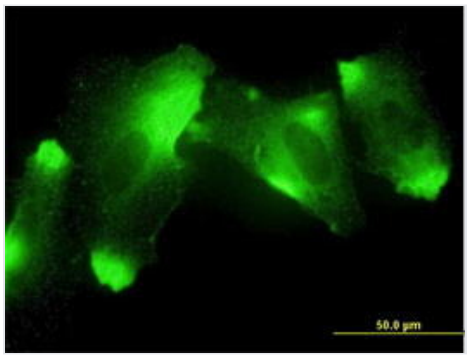
PRODUCT OVERVIEW

Product Name	MFRP, Monoclonal Antibody
Full Product Name	MFRP (Membrane Frizzled-Related Protein, Membrane-type Frizzled-related Protein, C1QTNF5, DKFZp586B0621, FLJ30570, MCOP5, MGC32938 NNO2) (AP)
Product Gene Name	anti-MFRP antibody
Clonality	Monoclonal
Isotype	IgG2b, lambda
Clone Number	1E12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MFRP.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62kDa
OMIM	AB055505 mRNA
3D Structure	ModBase 3D Structure for Q9BY79
Immunogen	Partial recombinant corresponding to aa480-580 from human MFRP (NP_113621) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	NTTAFPNIWVGMITQEEVVEVLSGYKSLTSLPCYQHFRRLLCGLLVPRCTPLGSVLPPCRSVCQEAEHQCQSGLALLGTPWPFNCNRLPEAADLEACAQF
Conjugate	AP
Product Categories/Family for anti-MFRP antibody	Antibodies; Membrane Proteins
Applications Tested/Suitable for anti-MFRP antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MFRP antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MFRP antibody	MBS6132298 is an antibody targeting MFRP. Also known as MFRP (Membrane Frizzled-Related Protein, Membrane-type Frizzled-related Protein, C1QTNF5, DKFZp586B0621, FLJ30570, MCOP5, MGC32938 NNO2) (AP). Reactive in Human. Host: Mouse.

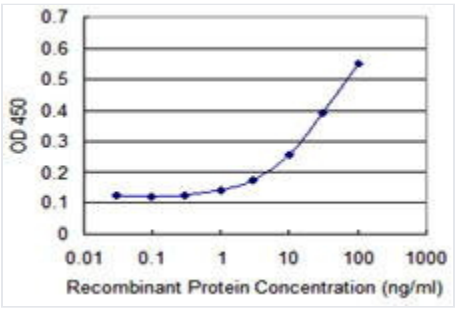
Other Notes	Small volumes of anti-MFRP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MFRP antibody
Western Blot detection against Immunogen (37.11kD).



Immunofluorescence (IF) of anti-MFRP antibody
Immunofluorescence of monoclonal antibody to MFRP on HeLa cell. [antibody concentration 10ug/ml].



Testing Data of anti-MFRP antibody
Detection limit for recombinant GST tagged MFRP is ~0.3ng/ml as a capture antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MFRP. It may not necessarily be applicable to this product.

NCBI GI #	13899255
NCBI GeneID	83552
NCBI Accession #	NP_113621
UniProt Primary Accession #	Q9BY79
UniProt Related Accession #	Q9BY79
GenBank Nucleotide #	NM_031433
NCBI Official Full Name	membrane frizzled-related protein
NCBI Official Synonym Full Names	membrane frizzled-related protein
NCBI Official Symbol	MFRP
NCBI Official Synonym Symbols	RD6; NNO2; CTRP5; MCOP5
UniProt Protein Name	Membrane frizzled-related protein
UniProt Synonym Protein Names	Membrane-type frizzled-related protein
Protein Family	Membrane frizzled-related protein
UniProt Gene Name	MFRP

NCBI Protein Information	membrane frizzled-related protein
NCBI Summary for MFRP	This gene encodes a member of the frizzled-related protein family. The encoded protein plays an important role in eye development and mutations in this gene have been associated with nanophthalmos, posterior microphthalmia, retinitis pigmentosa, foveoschisis, and optic disc drusen. The protein is encoded by a bicistronic transcript which also encodes C1q and tumor necrosis factor related protein 5 (C1QTNF5). [provided by RefSeq, Jun 2013]
UniProt Comments for MFRP	MFRP: May play a role in eye development. Defects in MFRP are the cause of nanophthalmos 2 (NNO2). NNO2 is a rare autosomal recessive disorder of eye development characterized by extreme hyperopia and small functional eyes. Defects in MFRP are the cause of microphthalmia isolated type 5 (MCOP5). Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Ocular abnormalities like opacities of the cornea and lens, scaring of the retina and choroid, cataract and other abnormalities like cataract may also be present. MCOP5 is characterized by posterior microphthalmia, retinitis pigmentosa, foveoschisis and optic disc drusen. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: integral to membrane Disease: Microphthalmia, Isolated 5; Nanophthalmos 2
Research Articles on MFRP	**1.** We report the MFRP-related ocular phenotype in three siblings with glycogen storage disease type 1b. Molecular genetic studies identified novel mutations in the MFRP and SLC37A4 genes.
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