Lens Fiber Major Intrinsic (MIP) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Lens Fiber Major Intrinsic Protein (MIP), ELISA Kit
Full Product Name	Rat Lens Fiber Major Intrinsic Protein (MIP) ELISA Kit
Product Gene Name	MIP elisa kit
Species Reactivity	Rat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	28,122 Da
OMIM	154050
Related Product Information for MIP elisa kit	MBS9345184 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Lens Fiber Major Intrinsic Protein (MIP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MIP. The ELISA analytical biochemical technique of the MBS9345184 kit is based on MIP antibody-MIP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MIP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MIP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MIP elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	6912506
NCBI GeneID	4284
NCBI Accession #	NP_036196.1
UniProt Secondary Accession #	Q17R41
UniProt Related Accession #	P30301
GenBank Nucleotide #	NM_012064.3
NCBI Official Full Name	lens fiber major intrinsic protein
NCBI Official Synonym Full Names	major intrinsic protein of lens fiber
NCBI Official Symbol	MIP
NCBI Official Synonym Symbols	AQP0; LIM1; MP26; MIP26; CTRCT15
UniProt Protein Name	Lens fiber major intrinsic protein
UniProt Synonym Protein Names	Aquaporin-0; MIP26; MP26
Protein Family	Allatostatins
UniProt Gene Name	MIP
UniProt Synonym Gene Names	AQP0; MP26

UniProt Entry Name	MIP_HUMAN
NCBI Protein Information	lens fiber major intrinsic protein
NCBI Summary for MIP	Major intrinsic protein is a member of the water-transporting aquaporins as well as the original member of the MIP family of channel proteins. The function of the fiber cell membrane protein encoded by this gene is undetermined, yet this protein is speculated to play a role in intracellular communication. The MIP protein is expressed in the ocular lens and is required for correct lens function. This gene has been mapped among aquaporins AQP2, AQP5, and AQP6, in a potential gene cluster at 12q13. [provided by RefSeq, Jul 2008]
UniProt Comments for MIP	AQP0: major intrinsic protein of lens fiber. A member of the water-transporting aquaporins as well as the original member of the MIP family of channel proteins. May be responsible for regulating the osmolarity of the lens. Defects in MIP are a cause of autosomal recessive congenital cataract. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Channel, misc.; Transporter, aquaporin family Chromosomal Location of Human Ortholog: 12q13 Cellular Component: apical plasma membrane; gap junction; integral to plasma membrane; intracellular canaliculus; intracellular membrane-bound organelle; plasma membrane Molecular Function: calmodulin binding; glycerol channel activity; structural constituent of eye lens; transporter activity; water channel activity Biological Process: canalicular bile acid transport; glycerol transport; lens development in camera-type eye; response to stimulus; transmembrane transport; visual perception; water transport Disease: Cataract 15, Multiple Types
Research Articles on MIP	**1.** Functional evidence linking the new MIP mutation of G215D to autosomal dominant congenital cataracts.
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