AQP0 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	AQP0, Polyclonal Antibody
Full Product Name	AQP0 Polyclonal Antibody
Product Gene Name	anti-AQP0 antibody
Clonality	Polyclonal
Molecular Weight	28,122 Da
OMIM	154050
3D Structure	ModBase 3D Structure for P30301
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-AQP0 antibody	MBS8521267 is an antibody targeting AQP0. Also known as AQP0 Polyclonal Antibody.
Other Notes	Small volumes of anti-AQP0 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AQP0. It may not necessarily be applicable to this product.

NCBI GI #	6912506
NCBI GeneID	4284
NCBI Accession #	NP_036196.1
UniProt Primary Accession #	P30301
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
UniProt Gene Name	MIP
UniProt Synonym Gene Names	AQP0; MP26
NCBI Protein Information	lens fiber major intrinsic protein

NCBI Summary for AQP0	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 AQP0	Water channel (PubMed:24120416). Channel activity is down-regulated by CALM when cytoplasmic Ca2+ levels are increased. May be responsible for regulating the osmolarity of the lens. Interactions between homotetramers from adjoining membranes may stabilize cell junctions in the eye lens core (). Plays a role in cell-to-cell adhesion and facilitates gap junction coupling (PubMed:24120416).
Research Articles on AQP0	**1.** The data evidence a broad lipidation profile of AQP0 that is both species and site independent, suggesting a chemical-based ester aminolysis mechanism to explain such modifications.
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