



AQP0 Monoclonal Antibody

Catalog No	YP-mAb-16375
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MIP
Immunogen	The antiserum was produced against synthesized peptide derived from human AQP0. AA range:95-144
Specificity	AQP0 Monoclonal Antibody detects endogenous levels of AQP0 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AQP;Aquaporin;Aquaporin-;Lens fiber major intrinsic protein;LIM 1;LIM1;Major intrinsic protein 26kD;Major intrinsic protein of lens fiber;MIP 26;mip; MIP_HUMAN;MIP26;MP 26;MP26;PALM;AQP0;Aquaporin-0
Observed Band	28kD
Calculated Molecular Weight	28kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell junction, gap junction .
Tissue Specificity	Expressed in the cortex and nucleus of the retina lens (at protein level) (PubMed:30790544). Major component of lens fiber gap junctions (PubMed:24120416).
Function	disease:Defects in MIP are a cause of autosomal recessive congenital cataract [MIM:154050].,domain:Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).,function:Water channel. May be responsible for regulating the osmolarity of the lens.,similarity:Belongs to the MIP/aquaporin (TC 1.A.8) family.,tissue specificity:Major component of lens fiber gap junctions.,



Background

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],

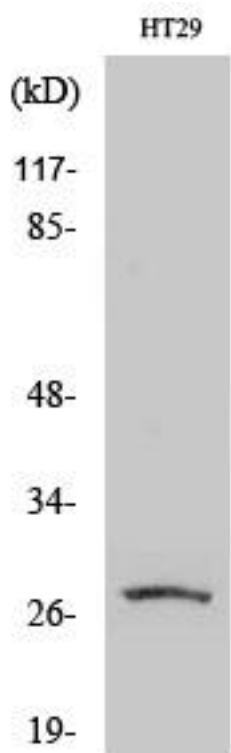
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using AQP0 Monoclonal Antibody