

ARG59043
anti-MIP / Aquaporin 0 antibodyPackage: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MIP / Aquaporin 0
Tested Reactivity	Rat
Predict Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MIP / Aquaporin 0
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 232-263 of Human Aquaporin 0 (ERLSVLKGAKPDVSNQPEVTGEPVELNTQAL).
Conjugation	Un-conjugated
Alternate Names	Aquaporin-0; LIM1; AQP0; Lens fiber major intrinsic protein; MIP26; CTRCT15; MP26

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

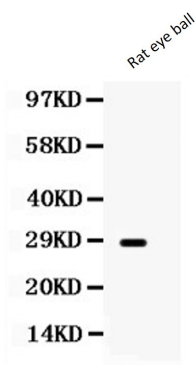
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MIP
Gene Full Name	major intrinsic protein of lens fiber
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]
Function	Water channel. Channel activity is down-regulated by CALM when cytoplasmic Ca(2+) 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 (By similarity). [UniProt]
Calculated Mw	28 kDa
PTM	Subject to partial proteolytic cleavage in the eye lens core. Partial proteolysis promotes interactions between tetramers from adjoining membranes (By similarity). Fatty acylated at Met-1 and Lys-238. The acyl modifications, in decreasing order of ion abundance, are: oleoyl (C18:1) > palmitoyl (C16:0) > stearoyl (C18:0) > eicosenoyl (C20:1) > dihomo-gamma-linolenoyl (C20:3) > palmitoleoyl (C16:1) > eicosadienoyl (C20:2). [UniProt]
Cellular Localization	Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. [UniProt]

Images



ARG59043 anti-MIP / Aquaporin 0 antibody WB image

Western blot: 50 µg of Rat eye ball lysate stained with ARG59043 anti-MIP / Aquaporin 0 antibody at 0.5 µg/ml dilution.