

ARG22361
anti-Aquaporin 4 antibodyPackage: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Aquaporin 4
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Aquaporin 4
Species	Rat
Immunogen	Synthetic peptide around the C-terminus of Rat Aquaporin 4. (N-CTKGSYMEVEDNRSQVETED)
Conjugation	Un-conjugated
Alternate Names	HMIWC2; Aquaporin-4; Mercurial-insensitive water channel; AQP-4; MIWC; WCH4

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:400
	IHC	1:200
	WB	1:2000

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

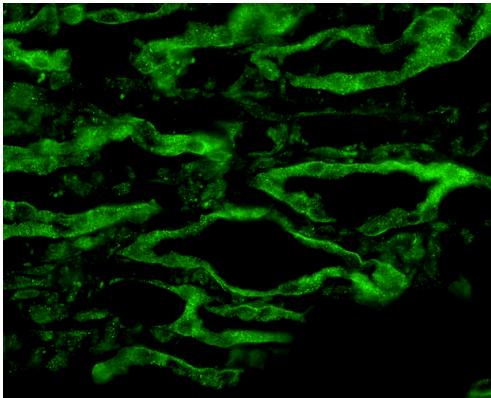
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 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. 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

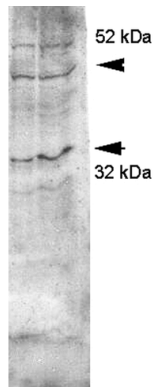
Gene Symbol	Aqp4
Gene Full Name	aquaporin 4
Background	This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Forms a water-specific channel. Osmoreceptor which regulates body water balance and mediates water flow within the central nervous system. [UniProt]
Calculated Mw	35 kDa (unmodified); 50 kDa (glycosylated)
PTM	Phosphorylation by PKC at Ser-180 reduces conductance by 50%. Phosphorylation by PKG at Ser-111 in response to glutamats increases conductance by 40% (By similarity).
Cellular Localization	Membrane

Images



ARG22361 anti-Aquaporin 4 antibody IHC image

Immunohistochemistry: Rat kidney tissue stained with ARG22361 anti-Aquaporin 4 antibody (green) at 1:200 dilution.



ARG22361 anti-Aquaporin 4 antibody WB image

Western blot: Rat kidney inner medullary homogenates stained with ARG22361 anti-Aquaporin 4 antibody at 1:2000 dilution.