

ARG22849 anti-Aquaporin 1 antibody [1/A5F6]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1/A5F6] recognizes Aquaporin 1 Mouse anti Human aquaporin 1 antibody, clone 1/A5F6 recognizes an epitope within the cytoplasmic domain of the water-specific channel aquaporin 1, also known as AQP1 or CHIP-28. Aquaporin 1 is a ~28 kDa integral membrane protein which was originally identified in red blood cells and the kidney. AQP1 is also expressed by the choroid plexus and various other tissues. The glycosylated forms of AQP1 range between 40-60 kDa.
Tested Reactivity	Hu, Ms, Rat, Rb, Zfsh
Tested Application	ELISA, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1/A5F6
Isotype	IgG1
Target Name	Aquaporin 1
Species	Human
Immunogen	Synthetic peptide around aa. 249-269 of human Aquaporin 1.
Conjugation	Un-conjugated
Alternate Names	Aquaporin-1; CO; AQP-CHIP; AQP-1; Aquaporin-CHIP; Water channel protein for red blood cells and kidney proximal tubule; CHIP28; Urine water channel

Application Instructions

Application table	Application	Dilution
	ELISA	1:1000 - 1:20000
	IHC-Fr	1:500 - 1:1000
	IHC-P	1:500 - 1:1000
	WB	1:1000 - 1:5000
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0). * 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 G.
Buffer	PBS, 0.1% Sodium azide and 0.1% BSA
Preservative	0.1% Sodium azide

Stabilizer	0.1% BSA
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 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	AQP1
Gene Full Name	aquaporin 1 (Colton blood group)
Background	Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically resembles channel proteins and is abundant in erythrocytes and renal tubes. The gene encoding this aquaporin is a possible candidate for disorders involving imbalance in ocular fluid movement. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]
Function	Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. [UniProt]
Calculated Mw	29 kDa