

## ARG20583 anti-Aquaporin 1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Aquaporin 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Aquaporin 1
Species	Rat
Immunogen	Synthetic peptide around the N-terminus of Rat Aquaporin 1. (N-MASEFKKKLF)
Conjugation	Un-conjugated
Alternate Names	AQP-1; Aquaporin-1; Water channel protein for red blood cells and kidney proximal tubule; CHIP28; Aquaporin-CHIP; CO; AQP-CHIP; Urine water channel

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:400
	IHC-P	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.	

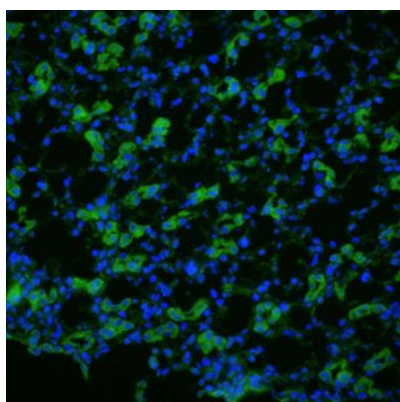
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 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

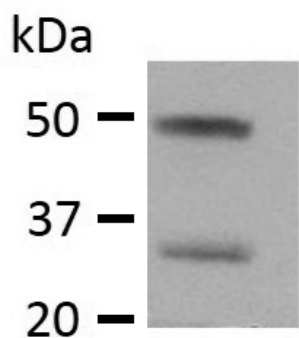
Gene Symbol	Aqp1
Gene Full Name	aquaporin 1
Background	Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains 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	28.5 kDa (unmodified); 35 - 50 kDa (glycosylated)

## Images



ARG20583 anti-Aquaporin 1 antibody ICC/IF image

Immunofluorescence: Rat kidney tissue stained with ARG20583 anti-Aquaporin 1 antibody at 1:200 dilution. DAPI merge.



ARG20583 anti-Aquaporin 1 antibody WB image

Western blot: Rat kidney tissue stained with ARG20583 anti-Aquaporin 1 antibody at 1:2000 dilution. Showing glyco and non-glycosylated bands.