
Product Name: AQP1 Rabbit Polyclonal Antibody**Catalog #: APRab07066**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight	29kDa

Antigen Information

Gene Name	AQP1
Alternative Names	AQP1; CHIP28; Aquaporin-1; AQP-1; Aquaporin-CHIP; Urine water channel; Water channel protein for red blood cells and kidney proximal tubule
Gene ID	358.0
SwissProt ID	P29972
Immunogen	The antiserum was produced against synthesized peptide derived from human AQP1. AA range:101-150

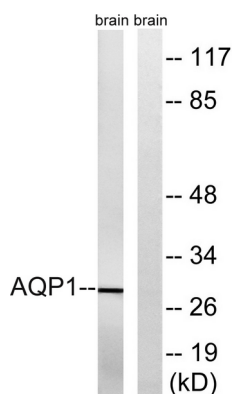
Background

This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016],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: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,,miscellaneous:Pharmacologically inhibited by submillimolar concentrations of mercury,,online information:Blood group antigen gene mutation database,online information:Liquid states - Issue 36 of July 2003,polymorphism:AQP1 is responsible for the Colton blood group system. Approximately 92% of Caucasians are Co(A+B-) (Ala-46), approximately 8% are Co(A+B+), and only 0.2% are Co(A-B+) (Val-46). Co(A-B-) which is very rare, is due to a complete absence of AQP1,,similarity:Belongs to the MIP/aquaporin (TC 1.A.8) family,,subunit:Homotetramer,,tissue specificity:Expressed in a number of tissues including erythrocytes, renal tubules, retinal pigment epithelium, heart, lung, skeletal muscle, kidney and pancreas. Weakly expressed in brain, placenta and liver.,

Research Area

Cell Biology

Image Data



Western blot analysis of lysates from rat brain cells, using AQP1 Antibody. The lane on the right is blocked with the synthesized peptide.