Best Tools for immunology Research

AQP1 Polyclonal Antibody

Catalog No :	YT0287
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	AQP1
Fields :	>>Renin secretion;>>Proximal tubule bicarbonate reclamation;>>Bile secretion
Gene Name :	AQP1
Protein Name :	Aquaporin-1
Human Gene Id :	358
Human Swiss Prot No :	P29972
Mouse Gene Id :	11826
Mouse Swiss Prot No :	Q02013
Rat Gene Id :	25240
Rat Swiss Prot No :	P29975
Immunogen :	The antiserum was produced against synthesized peptide derived from human AQP1. AA range:101-150
Specificity :	AQP1 Polyclonal Antibody detects endogenous levels of AQP1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 29kD

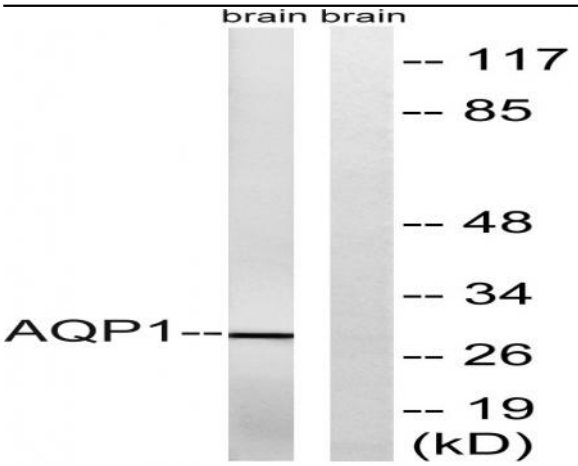
Background : This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016],

Function : 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) fa

Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : Detected in erythrocytes (at protein level). 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.

Products Images



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