



AQP1 Monoclonal Antibody

Catalog No	YP-mAb-16376
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	AQP1
Immunogen	The antiserum was produced against synthesized peptide derived from human AQP1. AA range:101-150
Specificity	AQP1 Monoclonal Antibody detects endogenous levels of AQP1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Aquaporin 1;AQP 1;AQP-1;Aquaporin1;Aquaporin-1;AQP1;CHIP28;Aquaporin-CHIP;Urine water channel;Water channel protein for red blood cells and kidney proximal tubule
Observed Band	29kD
Calculated Molecular Weight	29kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	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.
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

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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using AQP1
Monoclonal Antibody