AQP1 Rabbit mAb

Catalog No: #49447

Package Size: #49447-1 50ul #49447-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

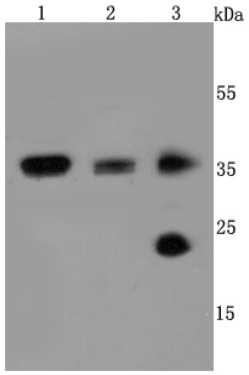
Description

Product Name	AQP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM10-98
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	AQP 1 antibody AQP CHIP antibody AQP-1 antibody AQP1 antibody AQP1_HUMAN antibody aquaporin 1 (channel-forming integral protein, 28kDa, CO blood group) antibody aquaporin 1 (Colton blood group) antibody Aquaporin CHIP antibody Aquaporin-1 antibody Aquaporin-CHIP antibody Aquaporin1 antibody Channel forming integral protein 28kDa antibody Channel like integral membrane protein 28 kDa antibody CHIP 28 antibody CHIP28 antibody CO antibody Colton blood group antibody Growth factor induced delayed early response protein antibody MGC26324 antibody Urine water channel antibody Water channel protein CHIP 29 antibody Water channel protein CHIP29 antibody Water channel protein for red blood cells and kidney proximal tubule antibody
Accession No.	Swiss-Prot#:P29972
Uniprot	P29972
GeneID	358;
Calculated MW	28/35 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

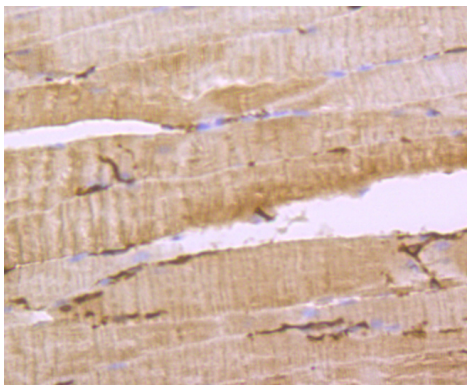
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200ICC: 1:50-1:200

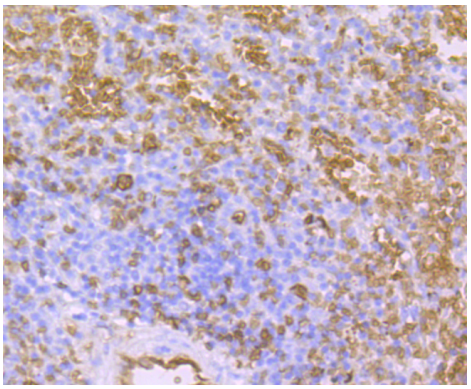
Images



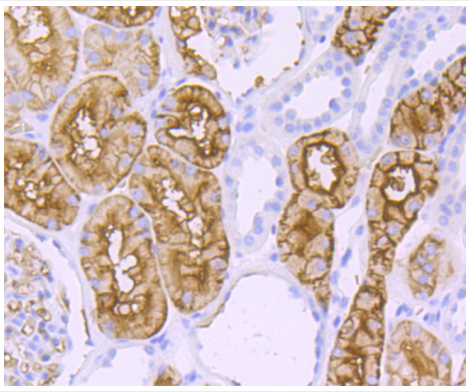
Western blot analysis of AQP1 on different cells lysates using anti-AQP1 antibody at 1/500 dilution. Positive control:
Line 1: Hela
Line 2:Jurkat
Line 3: Human kidney



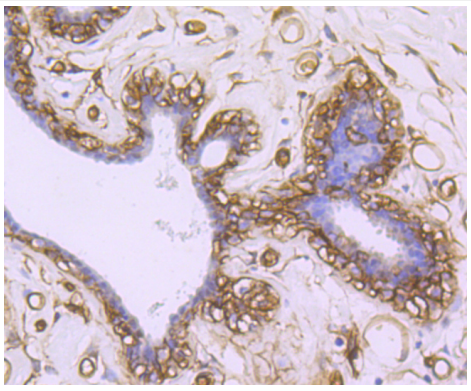
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



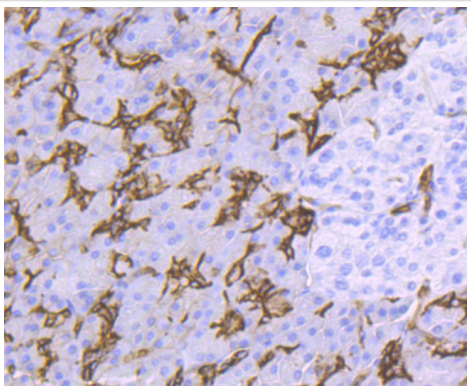
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



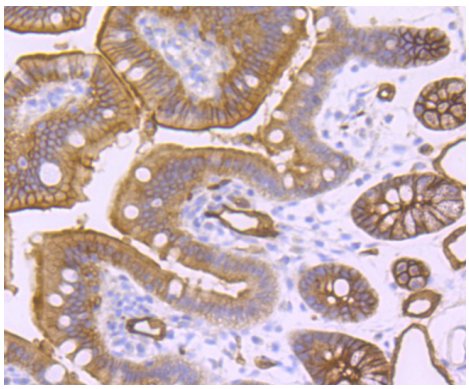
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



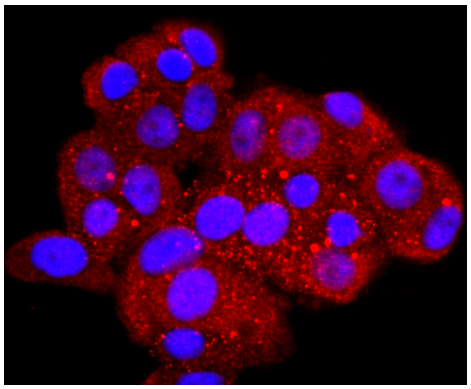
Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



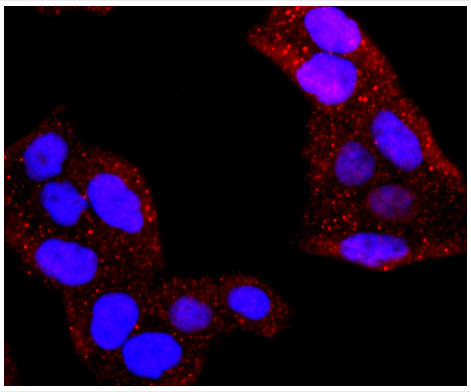
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



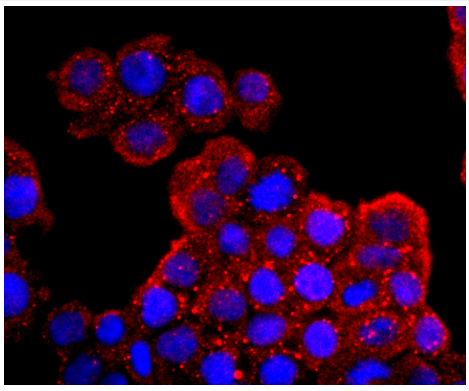
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-AQP1 antibody. Counter stained with hematoxylin.



ICC staining AQP1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining AQP1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining AQP1 in SW480 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. Many isoforms of Aquaporin have been identified in mammals, designated AQP0 through AQP10. Aquaporins are widely distributed and it is not uncommon for more than one type of AQP to be present in the same cell. Although most Aquaporins are only permeable to water, AQP3, AQP7, AQP9 and one of the two AQP10 transcripts are also permeable to urea and glycerol. AQP2 is the only water channel that is activated by vasopressin to enhance water reabsorption in the kidney collecting duct. Aquaporins are involved in renal water absorption, generation of pulmonary secretions, lacrimation and the secretion and reabsorption of cerebrospinal fluid and aqueous humor. AQP1 is an integral membrane protein expressed in erythrocytes and renal tubule cells.

References

Note: This product is for in vitro research use only