

For Research Use Only

AQP1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 81137-2-PBS



Basic Information

Catalog Number: 81137-2-PBS	GenBank Accession Number: BC022486	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 358	CloneNo.: 251798B1
Isotype: IgG	UNIPROT ID: P29972	
Immunogen Catalog Number: AG14093	Full Name: aquaporin 1 (Colton blood group)	
	Calculated MW: 269 aa, 29 kDa	
	Observed MW: 25-28 kDa, 35-50 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

AQP1 is a member of aquaporins (AQPs) that are small membrane-spanning proteins facilitating water transport. AQP1 is expressed in most tissues in the mammalian body. Alterations of AQP1 expression have been linked to variety of diseases, including cancer. The predicted molecular weight of AQP1 is around 28 kDa, while highly glycosylated form can also be observed around 35-50 kDa. (PMID:20965731,16508653, 1530176).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

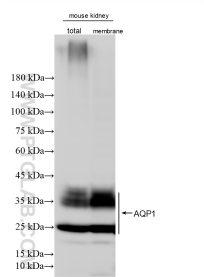
T: 4006900926

E: Proteintech-CN@ptglab.com

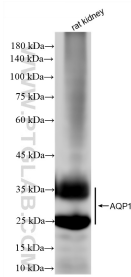
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

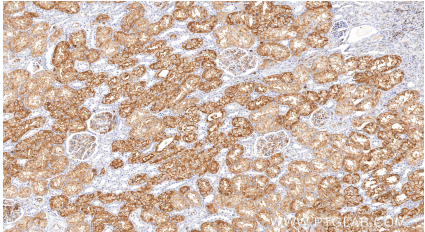
Selected Validation Data



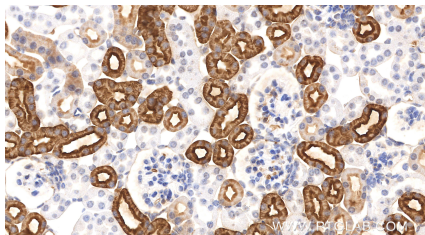
Mouse kidney total extract lysate and membrane extract lysate were subjected to SDS PAGE followed by western blot with 81137-2-RR (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



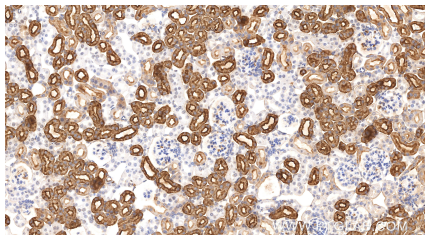
rat kidney tissue were subjected to SDS PAGE followed by western blot with 81137-2-RR (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



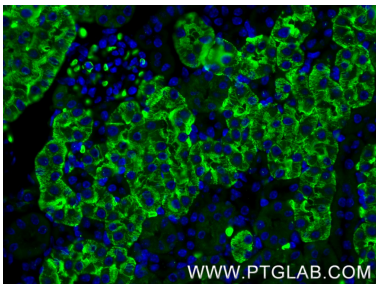
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 81137-2-RR (AQP1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



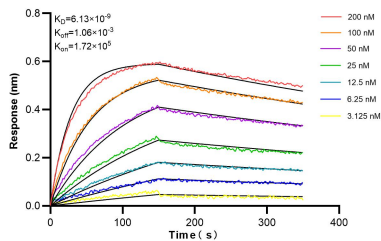
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 81137-2-RR (AQP1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 81137-2-RR (AQP1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using AQP1 antibody (81137-2-RR, Clone: 251798B1) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81137-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81137-2-RR against Human AQP1 were performed. The affinity constant is 6.13 nM.