

For Research Use Only

AQP1 Recombinant monoclonal antibody

Catalog Number: 81137-2-RR



Basic Information

Catalog Number: 81137-2-RR	GenBank Accession Number: BC022486	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 358	CloneNo.: 251798B1
Source: Rabbit	UNIPROT ID: P29972	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:250-1:1000 IF-P: 1:500-1:2000
Isotype: IgG	Full Name: aquaporin 1 (Colton blood group)	
Immunogen Catalog Number: AG14093	Calculated MW: 269 aa, 29 kDa	
	Observed MW: 25-28 kDa, 35-50 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse kidney tissue, rat kidney tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse kidney tissue, human kidney tissue
	IF-P : mouse kidney tissue,

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

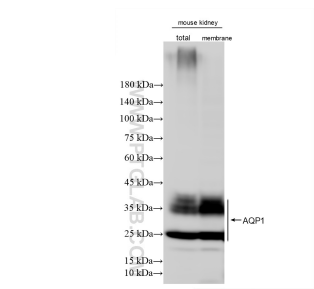
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

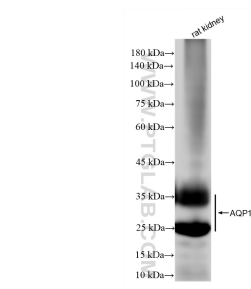
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

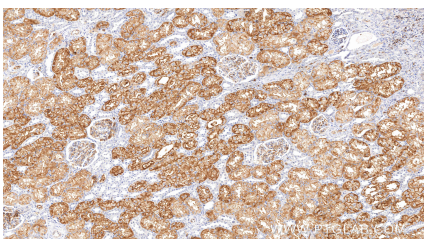
Selected Validation Data



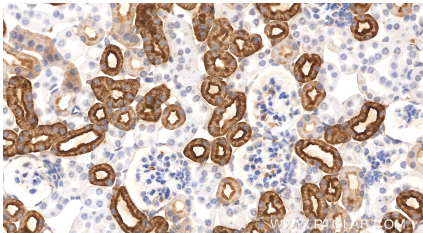
Mouse kidney total extract lysate and membrane extract lysate were subjected to SDS PAGE followed by western blot with 81137-2-RR (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



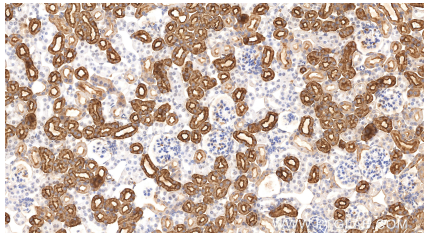
rat kidney tissue were subjected to SDS PAGE followed by western blot with 81137-2-RR (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



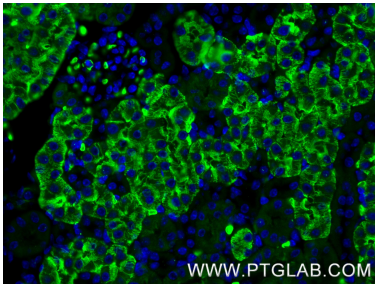
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 81137-2-RR (AQP1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



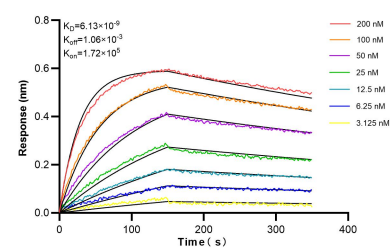
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 81137-2-RR (AQP1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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