

For Research Use Only

# AQP1 Monoclonal antibody

Catalog Number: 66805-1-Ig **5 Publications**



## Basic Information

<b>Catalog Number:</b> 66805-1-Ig	<b>GenBank Accession Number:</b> BC022486	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1400 ug/ml by 358 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> UNIPROT ID: P29972	<b>CloneNo.:</b> 2E5D6
<b>Source:</b> Mouse	<b>Full Name:</b> aquaporin 1 (Colton blood group)	<b>Recommended Dilutions:</b> WB: 1:5000-1:20000 IHC: 1:200-1:800 IF-P: 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 269 aa, 29 kDa	
<b>Immunogen Catalog Number:</b> AG14093	<b>Observed MW:</b> 28 kDa, 38-40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> human heart tissue, human skeletal muscle tissue, pig kidney tissue
<b>Species Specificity:</b> Human, pig	<b>IHC :</b> human kidney tissue,
<b>Cited Species:</b> human, mouse	<b>IF-P :</b> human kidney tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 40-45 kDa. (1530176)

## Notable Publications

Author	Pubmed ID	Journal	Application
Léa Pechtimaldjian	39709611	STAR Protoc	IF
Lili Huang	39584501	J Cell Mol Med	IF
Qing Ye	38591641	Clin Transl Med	IF

## Storage

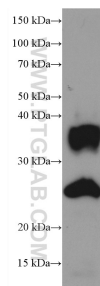
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

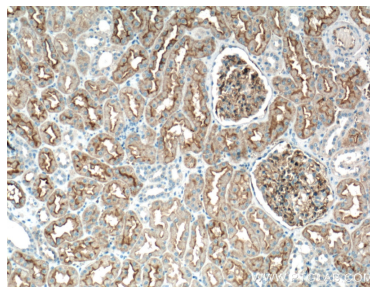
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

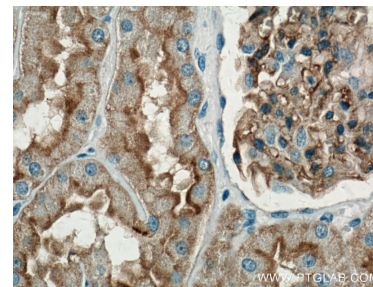
## Selected Validation Data



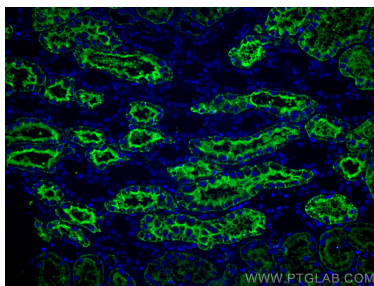
human heart tissue were subjected to SDS PAGE followed by western blot with 66805-1-Ig (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66805-1-Ig (AQP1 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66805-1-Ig (AQP1 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using AQP1 antibody (66805-1-Ig, Clone: 2E5D6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).