

For Research Use Only

# AQP1 Polyclonal antibody

Catalog Number: 20333-1-AP

Featured Product

77 Publications



## Basic Information

### Catalog Number:

20333-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14093

### GenBank Accession Number:

BC022486

### GeneID (NCBI):

358

### UNIPROT ID:

P29972

### Full Name:

aquaporin 1 (Colton blood group)

### Calculated MW:

269 aa, 29 kDa

### Observed MW:

25-28 kDa, 35-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:3000-1:12000

IF-P: 1:50-1:500

IF-Fro: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF-P, IF-Fro, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, canine, bovine, goat, horse, cat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: mouse skeletal muscle tissue, human heart tissue, rat skeletal muscle, mouse kidney, rat kidney

**IP**: mouse kidney tissue, mouse skeletal muscle tissue

**IHC**: mouse kidney tissue, human breast cancer tissue, human kidney tissue

**IF-P**: human breast cancer tissue, mouse kidney tissue

**IF-Fro**: mouse breast cancer,

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianping Zhang	31572217	Front Physiol	WB,IHC
Haiyan Fu, Yuan	34622165	iScience	IF
Yi Song	36316968	Cell Prolif	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

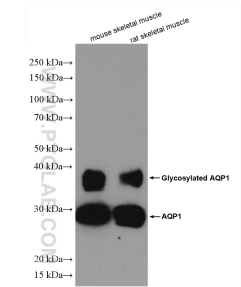
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

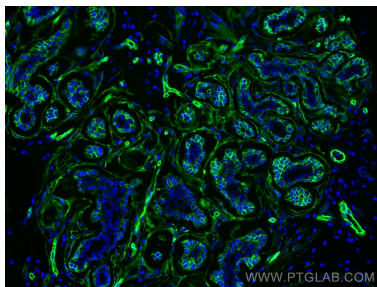
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

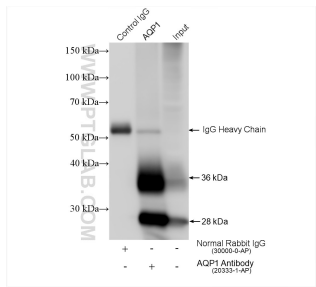
Selected Validation Data



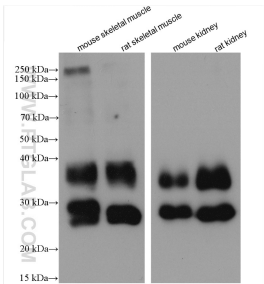
Various lysates were subjected to SDS PAGE followed by western blot with 20333-1-AP (AQP1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



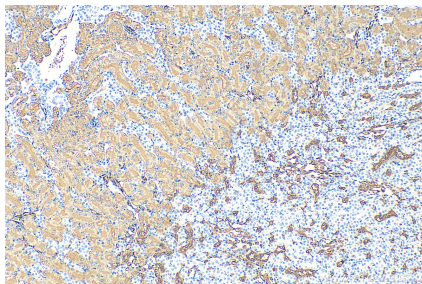
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using AQP1 antibody (20333-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



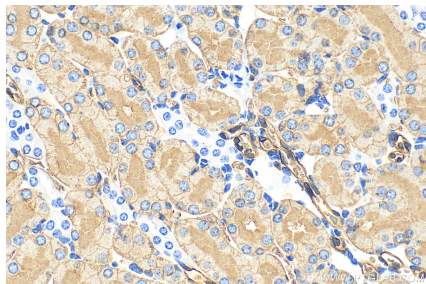
IP result of anti-AQP1 (IP:20333-1-AP, 4ug; Detection:20333-1-AP 1:40000) with mouse kidney tissue lysate 2160 ug.



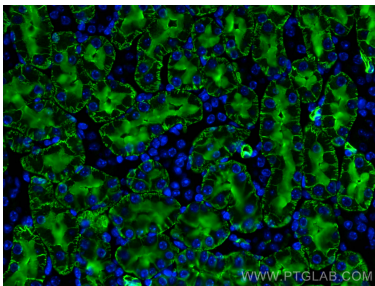
Various lysates were subjected to SDS PAGE followed by western blot with 20333-1-AP (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



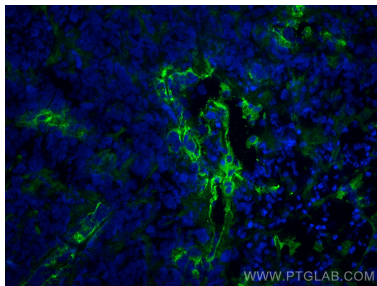
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 20333-1-AP (AQP1 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 20333-1-AP (AQP1 antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using AQP1 antibody (20333-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using AQP1 antibody (20333-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).