

For Research Use Only

AQP1 Polyclonal antibody

Catalog Number: 20333-1-AP

Featured Product

77 Publications



Basic Information

Catalog Number:

20333-1-AP

Concentration:

500 ug/ml

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

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

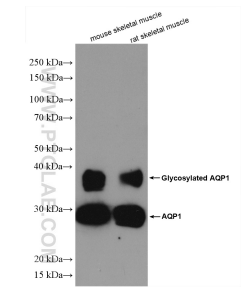
T: 4006900926

E: Proteintech-CN@ptglab.com

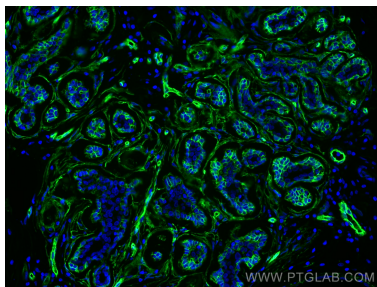
W: ptgcn.com

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

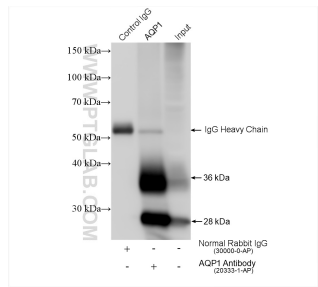
Selected Validation Data



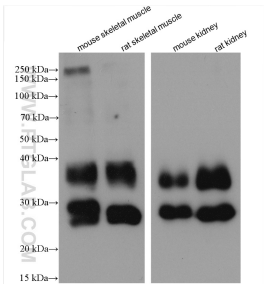
Various lysates were subjected to SDS PAGE followed by western blot with 20333-1-AP (AQP1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



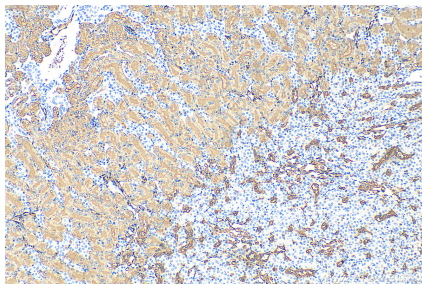
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using AQP1 antibody (20333-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



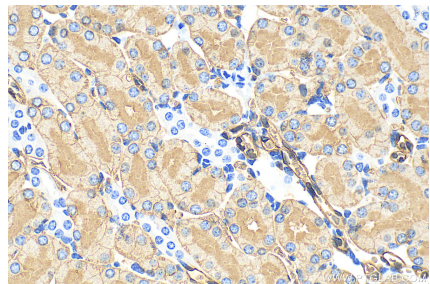
IP result of anti-AQP1 (IP:20333-1-AP, 4ug; Detection:20333-1-AP 1:40000) with mouse kidney tissue lysate 2160 ug.



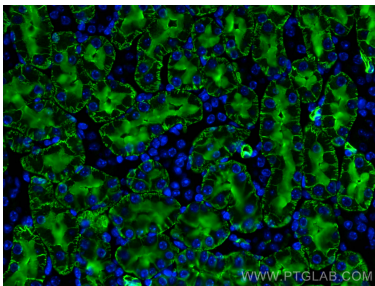
Various lysates were subjected to SDS PAGE followed by western blot with 20333-1-AP (AQP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



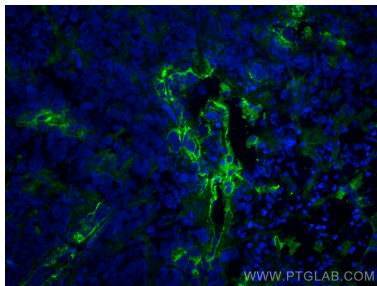
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 20333-1-AP (AQP1 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).