

For Research Use Only

AQP2 Polyclonal antibody

Catalog Number: 29386-1-AP

4 Publications



Basic Information

Catalog Number:

29386-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29931

GenBank Accession Number:

NM_000486

GeneID (NCBI):

359

UNIPROT ID:

P41181

Full Name:

aquaporin 2 (collecting duct)

Calculated MW:

29 kDa

Observed MW:

28-29, 35-38 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:500-1:2000

IF-P: 1:50-1:500

IF-Fro: 1:200-1:800

Applications

Tested Applications:

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

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

mouse

Positive Controls:

WB: 37°C incubated mouse kidney tissue,

IHC: mouse kidney tissue, human kidney tissue

IF-P: mouse kidney tissue,

IF-Fro: mouse 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

Background Information

AQP2 (Aquaporin2) is a water channel protein that is widely distributed among mammalian tissues and plays a major role in water homeostasis. AQP2 is mainly found in the apical cell membranes of the kidney's collecting duct cells and is critical for urinary concentration. AQP2 can be glycosylated and this antibody recognizes the 28-29 kDa non-glycosylated as well as the 35-40 kDa glycosylated forms of AQP2.

Notable Publications

Author	Pubmed ID	Journal	Application
Yaru Zhang	40037426	Environ Pollut	IF
Bo Pang	39781606	FASEB J	WB,IF
Xue Zhang	39721589	Diabetes Metab J	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

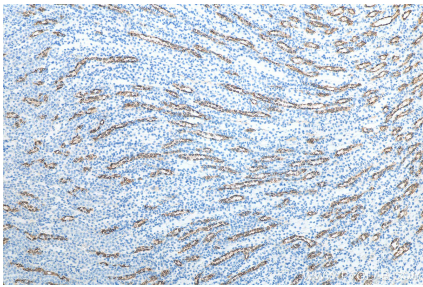
For technical support and original validation data for this product please contact:

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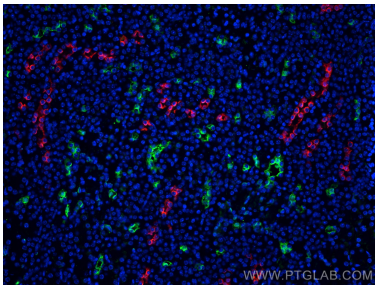
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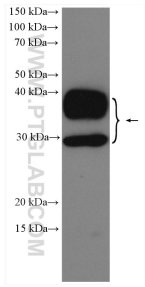
Selected Validation Data



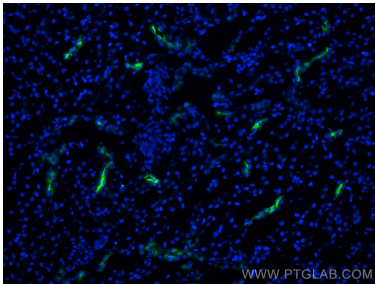
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 29386-1-AP (AQP2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using AQP2 antibody (29386-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), AQP1 antibody (66805-1-Ig, Clone: 2E5D6, green).



37°C incubated mouse kidney tissue were subjected to SDS PAGE followed by western blot with 29386-1-AP (AQP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse kidney tissue using AQP2 antibody (29386-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).