

For Research Use Only

AQP7 Polyclonal antibody

Catalog Number: 25131-1-AP

3 Publications



Basic Information

Catalog Number:

25131-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17945

GenBank Accession Number:

BC062701

GeneID (NCBI):

364

UNIPROT ID:

O14520

Full Name:

aquaporin 7

Calculated MW:

342 aa, 37 kDa

Observed MW:

25-30 kDa, 40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

IF, IHC

Species Specificity:

human, mouse

Cited Species:

mouse

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 kidney tissue, mouse testis tissue

IP : mouse kidney tissue,

IHC : human kidney tissue, mouse kidney tissue

Background Information

AQP7 is a member of the aquaporin family of water-selective membrane channels, localizes to the plasma membrane, and allows movement of water, glycerol and urea across cell membranes. AQP7 forms a channel that mediates water and glycerol transport across cell membranes at neutral pH. AQP7 is highly expressed in the adipose tissue (PMID: 9405233).

Notable Publications

Author	Pubmed ID	Journal	Application
Amy C Engevik	30144427	Gastroenterology	IF
Jingjing Da	37931516	Biomed Pharmacother	IHC
Sheng Gao	37410071	FASEB 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

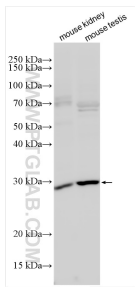
For technical support and original validation data for this product please contact:

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

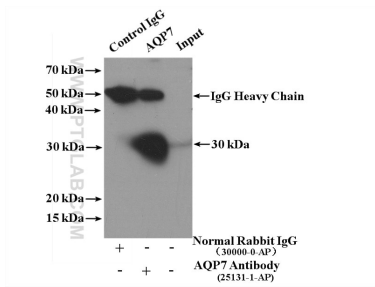
E: proteintech@ptglab.com
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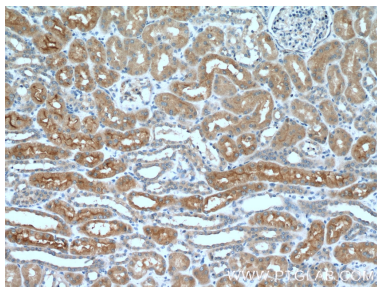
Selected Validation Data



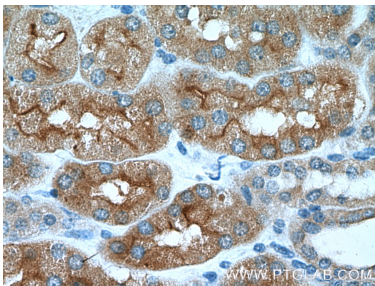
Various lysates were subjected to SDS PAGE followed by western blot with 25131-1-AP (AQP7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-AQP7 (IP:25131-1-AP, 4ug; Detection:25131-1-AP 1:300) with mouse kidney tissue lysate 6500ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 25131-1-AP (AQP7 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 25131-1-AP (AQP7 Antibody) at dilution of 1:200 (under 40x lens).