

For Research Use Only

AQP5 Polyclonal antibody

Catalog Number: 20334-1-AP

16 Publications



Basic Information

Catalog Number:

20334-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14103

GenBank Accession Number:

BC032946

GeneID (NCBI):

362

UNIPROT ID:

P55064

Full Name:

aquaporin 5

Calculated MW:

265 aa, 28 kDa

Observed MW:

27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:2500-1:10000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 lung tissue, rat lung tissue

IHC : mouse lung tissue, mouse kidney tissue, rat kidney tissue

IF-P : rat lung tissue,

Background Information

AQP5 is a member of aquaporins (AQPs) which are membrane proteins functioning as water channels and involved in the bidirectional transfer of water and small solutes across cell membranes. AQP5 is widely expressed including digestive, renal, respiratory, and reproductive systems. AQP5 overexpression in cancer cells and tumor tissues has been extensively reported. Recently AQP5 has been identified as a marker for adult pyloric stem cells.

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Huang	36189316	Front Immunol	IF, WB
Zhifang An	36198267	Cell Rep	IF
Jimei Li	35368669	Front Genet	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

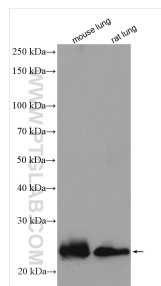
For technical support and original validation data for this product please contact:

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

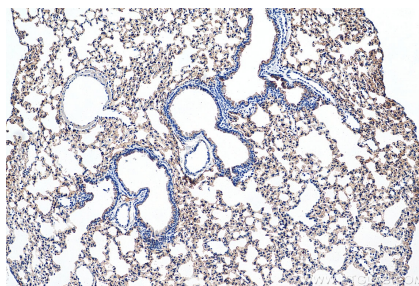
E: proteintech@ptglab.com
W: ptglab.com

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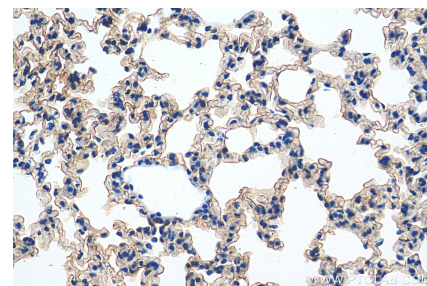
Selected Validation Data



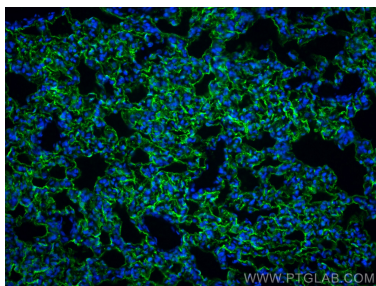
Various lysates were subjected to SDS PAGE followed by western blot with 20334-1-AP (AQP5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 20334-1-AP (AQP5 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 20334-1-AP (AQP5 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat lung tissue using AQP5 antibody (20334-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).