

For Research Use Only

# Aquaporin 4 Monoclonal antibody

Catalog Number: 68448-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 68448-1-Ig	<b>GenBank Accession Number:</b> BC022286	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 361	<b>CloneNo.:</b> 3G7D3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P55087	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:8000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> Aquaporin 4	
<b>Immunogen Catalog Number:</b> AG9830	<b>Calculated MW:</b> 323 aa, 35 kDa	
	<b>Observed MW:</b> 35-37 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> pig brain tissue, rat spinal cord tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	<b>IHC :</b> mouse brain tissue,
<b>Cited Species:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Aquaporins are specialized water transport channels in plasma membranes of water-permeable tissues. Aquaporin-4 (AQP4) is the most abundant water channel in the human central nervous system and is important to fluid movements in brain. Aquaporin-4 exists as two isoforms, a long (M1) isoform with translation initiation at Met-1, and a shorter (M23) isoform with translation initiation at Met-23, with molecular weights around 35-37 kDa and 32-34 kDa, respectively.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Han	39940878	Int J Mol Sci	WB
Yacong He	39619615	Front Pharmacol	WB

## Storage

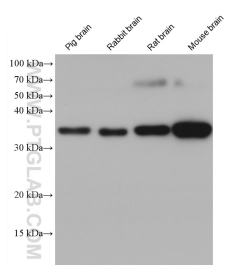
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

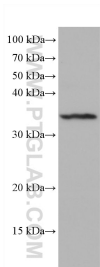
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

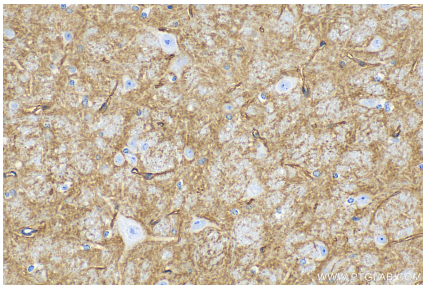
## Selected Validation Data



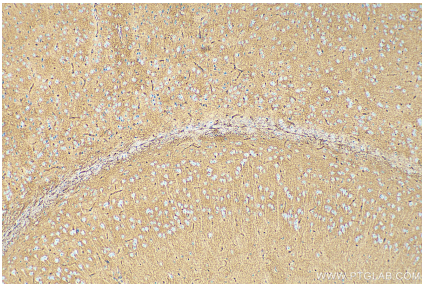
Various lysates were subjected to SDS PAGE followed by western blot with 68448-1-Ig (AQP4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



rat spinal cord tissue were subjected to SDS PAGE followed by western blot with 68448-1-Ig (AQP4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68448-1-Ig (Aquaporin 4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68448-1-Ig (Aquaporin 4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).