

For Research Use Only

# Aquaporin 4 Monoclonal antibody

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



## Basic Information

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

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : pig brain tissue, rat spinal cord tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue
Species Specificity: human, mouse, rat, pig, rabbit	IHC : mouse brain tissue,
Cited Species: 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
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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

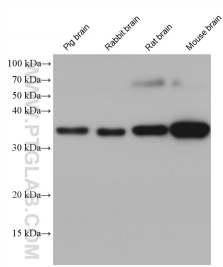
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

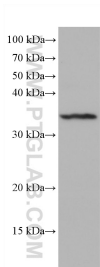
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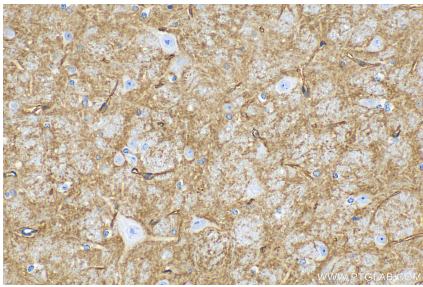
## Selected Validation Data



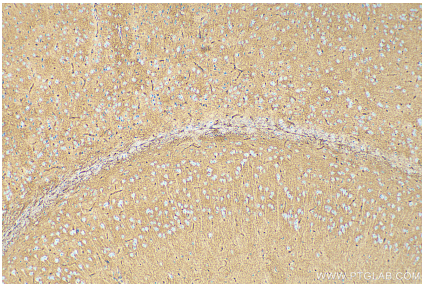
Various lysates were subjected to SDS PAGE followed by western blot with 68448-1-Ig (AQP4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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 (AQP4 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 (AQP4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).