

For Research Use Only

Aquaporin 4 Recombinant antibody

Catalog Number:82296-6-RR



Basic Information

Catalog Number: 82296-6-RR	GenBank Accession Number: BC022286	Purification Method: Protein A purification
Size: 100ul , Concentration: 850 µg/ml by Nanodrop;	GeneID (NCBI): 361	CloneNo.: 240856C7
Source: Rabbit	UNIPROT ID: P55087	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Isotype: IgG	Full Name: aquaporin 4	
Immunogen Catalog Number: AG9561	Calculated MW: 323 aa, 35 kDa	
	Observed MW: 32-34 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, 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 : 37°C incubated mouse brain tissue,

IHC : rat brain tissue,

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.

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

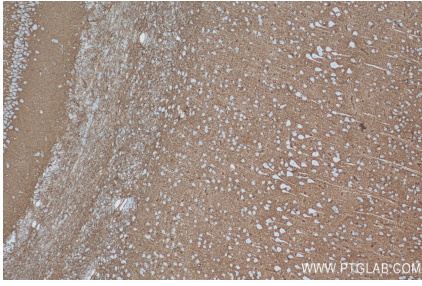
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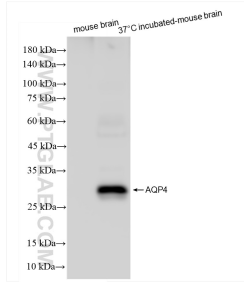
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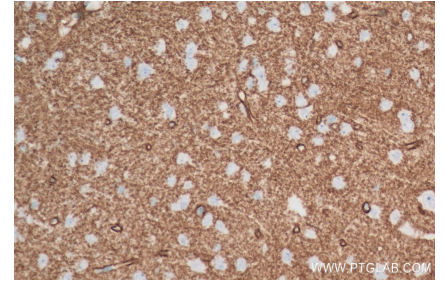
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



37°C incubated mouse brain tissue were subjected to SDS PAGE followed by western blot with 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).