

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 ug/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 IF-P 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, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : 37°C incubated mouse brain tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat brain tissue,
	IF-P : mouse 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

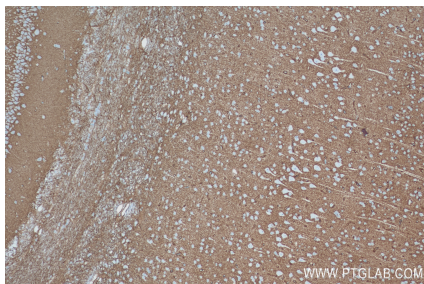
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

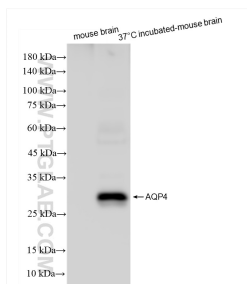
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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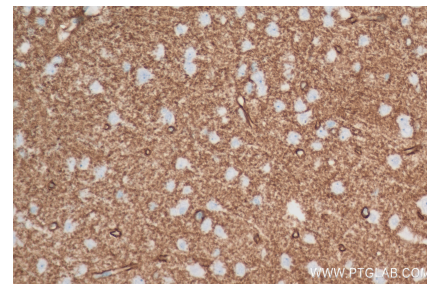
Selected Validation Data



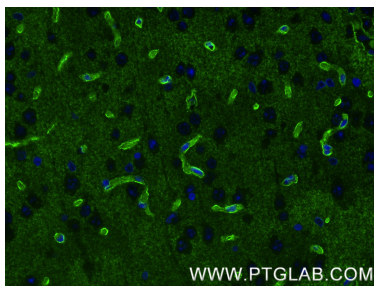
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



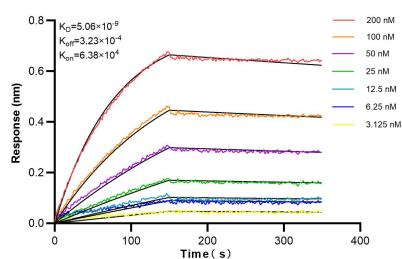
37°C incubated mouse brain tissue were subjected to SDS PAGE followed by western blot with 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Aquaporin 4 antibody (82296-6-RR, Clone: 240856C7) 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).



Biolayer interferometry (BLI) kinetic assays of 82296-6-RR against Human Aquaporin 4 were performed. The affinity constant is 5.06 nM.