

For Research Use Only

Aquaporin 4 Recombinant antibody, PBS Only

Catalog Number: 82296-6-PBS



Basic Information

Catalog Number:

82296-6-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9561

GenBank Accession Number:

BC022286

GeneID (NCBI):

361

UNIPROT ID:

P55087

Full Name:

Aquaporin 4

Calculated MW:

323 aa, 35 kDa

Observed MW:

32-34 kDa

Purification Method:

Protein A purification

CloneNo.:

240856C7

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

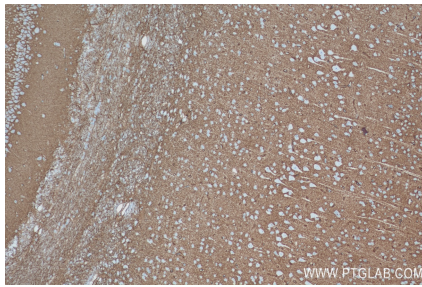
T: 4006900926

E: Proteintech-CN@ptglab.com

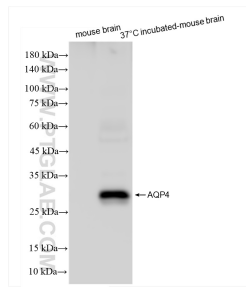
W: ptgcn.com

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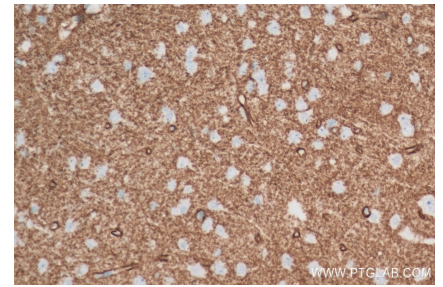
Selected Validation Data



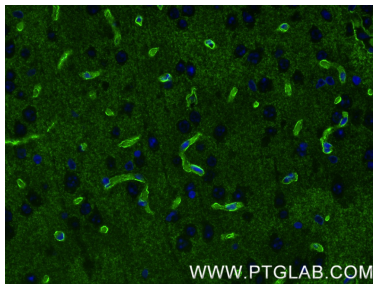
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82296-6-PBS in a different storage buffer formulation.



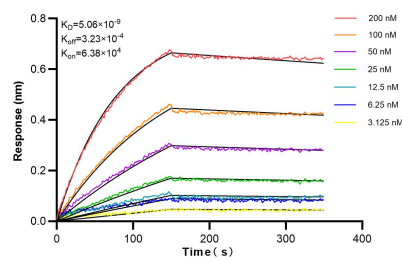
37°C incubated mouse brain tissue were subjected to SDS PAGE followed by western blot with 82296-6-RR (Aquaporin 4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82296-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82296-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82296-6-PBS in a different storage buffer formulation.



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