

Rabbit AQP4 Polyclonal Antibody | anti-AQP4 antibody

AQP4 Antibody

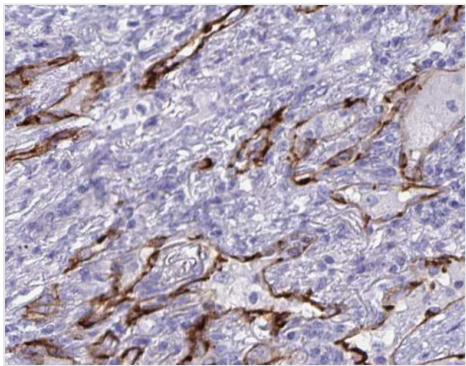
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321839	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

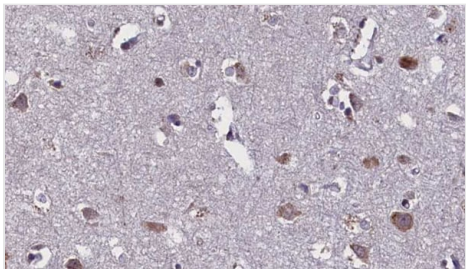
AQP4; Polyclonal Antibody; AQP4 Antibody; AQP 4; AQP-4; AQP4_HUMAN; Aquaporin type 4; Aquaporin-4; Aquaporin4; HMIWC 2; HMIWC2; Mercurial insensitive water channel; Mercurial-insensitive water channel; MGC22454; MIWC; WCH 4; WCH4; anti-AQP4 antibody

PRODUCT SPECIFICATIONS

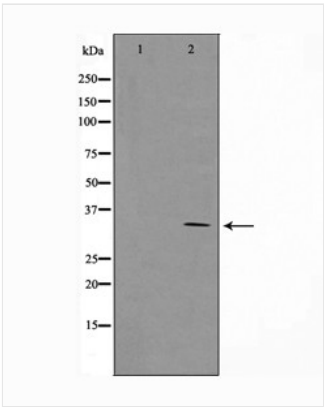
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AQP4 antibody detects endogenous levels of total AQP4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	323
Applicable Applications for anti-AQP4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AQP4
Subcellular Location	Membrane.
Tissue Specificity	Brain-muscle > > heart, kidney, lung, and trachea.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Chicken
Similarity	Pig (90%), Bovine (90%), Horse (90%), Rabbit (90%), Dog (80%), Chicken (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA321839 at 1/100 staining human lung tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA321839 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of AQP4 Antibody expression in rat brain tissue lysates. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AQP4 antibody	Description: Forms a water-specific channel. Osmoreceptor which regulates body water balance and mediates water flow within the central nervous system. Subunit Structure: Homotetramer. Part of a complex containing MLC1, TRPV4, HEPACAM and ATP1B1. Post-translational Modifications: Phosphorylation by PKC at Ser-180 reduces conductance by 50%. Phosphorylation by PKG at Ser-111 in response to glutamats increases conductance by 40% (By similarity). Similarity: Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA). Belongs to the MIP/aquaporin (TC 1.A.8) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502181
NCBI GeneID	361
NCBI Accession #	NP_001641.1
NCBI GenBank Nucleotide #	NM_001650.6
UniProt Accession #	P55087; P78564
Molecular Weight	Observed: 34 kDa Predicted: 35 kDa
NCBI Official Full Name	aquaporin-4 isoform M1
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4

NCBI Official Synonym Symbols	MIWC; WCH4
NCBI Protein Information	aquaporin-4
UniProt Protein Name	Aquaporin-4
UniProt Gene Name	AQP4
UniProt Synonym Gene Names	AQP-4; MIWC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aqp4-antibody-immunohistochemistry-western-blot-elisa/321839>