

Rabbit Aquaporin 8 Polyclonal Antibody | anti-Aqp8 antibody

Aquaporin 8 Antibody

CATALOG # AAA75716	HOST Rabbit	REACTIVITY Bovine, Human, Mouse, Rat, Sheep	APPLICATIONS Dot Blot, Western Blot, Immunoprecipitation, ELISA
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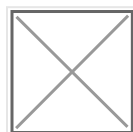
PRODUCT SYNONYMS

Aquaporin 8; Polyclonal Antibody; Aquaporin 8 Antibody; AQP8; Aquaporin 8 antibody; anti-Aqp8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Bovine, Human, Mouse, Rat, Sheep
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Affinity Purified Immunoglobulins
Concentration	0.65 mg/ml IgG in antibody stabilization buffer (varies by lot)
Sequence Length	263
Applicable Applications for anti-Aqp8 antibody	DB (Dot Blot), WB (Western Blot), IP (Immunoprecipitation), ELISA
Immunogen	Synthetic peptide taken within amino acid region 215-263 on rat Aquaporin 8 protein.
Immunoglobulin	IgG
Expression	Sperm, pancreas and liver. Less expressed in salivary gland and absorptive colonic epithelial cells.
Molecular Function	Transport
Structure	Contain two tandem repeats each with three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala
Subcellular Location	Membrane; Multi-pass protein
Preparation and Storage	Store at -20°C for long term storage

IMAGES



WB (Western Blot)

WB with AAA75716 in 1:500 dilution in DiluObuffer.

ADDITIONAL INFORMATION

Related Product Information for anti-Aqp8 antibody	Water channel proteins, known as Aquaporins, are transmembrane proteins that mediate osmotic water permeability. AQPs are a family of homologous water channels widely distributed in plants, unicellular organisms, invertebrates, and vertebrates. Aquaporins are selective water/glycerol channels involved in the maintenance of volume homeostasis and ionic/osmotic balance. These water channels also enhance cellular tolerance against rapid freezing, which suggest that they might have some ecological relevance. Early work of Nobel Prize winner Peter Agre first cloned a 269 amino acid Aquaporin protein from red blood cell and kidney libraries that has six transmembrane domains (1). The amino terminal end of the protein was in the membrane and has two repeats that are at 1800 to each other and are responsible for water selectivity. The selective antibodies were generated against conserved sequences at the C-terminal end of the protein that is unique to rat/mouse Aquaporin 8 protein. The polyclonal antibodies were affinity purified on an immobilized antigen based affinity chromatography. The isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. Antigenic blocking peptides (MBS452379) and Western blot positive controls in ready to use SDS-sample buffers (MBS542541) are available.
Product Categories/Family for anti-Aqp8 antibody	Primary Antibodies ; Channels & Transporters ; Aquaporin 8 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	2346968
NCBI GeneID	29172
UniProt Accession #	P56405
Molecular Weight	28,055 Da
NCBI Official Full Name	aquaporin 8
NCBI Official Synonym Full Names	aquaporin 8
NCBI Official Symbol	Aqp8
NCBI Official Synonym Symbols	AQP-8
NCBI Protein Information	aquaporin-8
UniProt Protein Name	Aquaporin-8
UniProt Gene Name	Aqp8
UniProt Synonym Gene Names	AQP-8
UniProt Entry Name	AQP8_RAT

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/aquaporin-8-antibody-dot-blot-western-blot-immunoprecipitation-elisa/75716>