

Rabbit Aquaporin 9 Polyclonal Antibody | anti-Aqp9 antibody

Aquaporin 9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75721	Rabbit	Bovine, Mouse, Rat, Sheep, Human	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

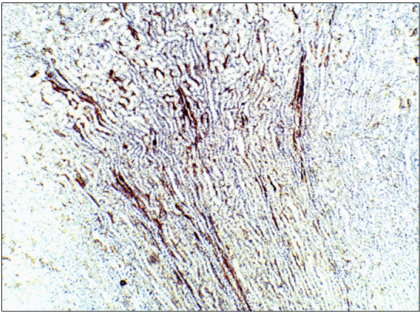
PRODUCT SYNONYMS

Aquaporin 9; Polyclonal Antibody; Aquaporin 9 Antibody; AQP 9; Aquaglyceroporin-9; HsT 17287; Small solute channel 1; SSC 1 antibody; anti-Aqp9 antibody

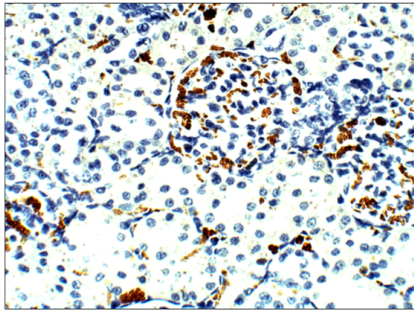
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Bovine, Mouse, Rat, Sheep, Human
Clonality	Polyclonal
Concentration	0.80 mg/ml of antibody stabilization buffer (varies by lot)
Sequence Length	295
Applicable Applications for anti-Aqp9 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	Synthetic C-terminal amidated peptide for Aquaporin 9 was conjugated to KLH & was used to generate antibodies in rabbit.
Immunoglobulin	IgG
Expression	Highly expressed in peripheral leukocytes. Also expressed in liver, lung, and spleen.
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	The antiserum is supplied in antibody stabilization buffer. For long-term storage of antibody, store at -20 degree C. MBS Inc. does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat# please inquire). Working solutions of antibodies in (Cat# please inquire) should be filtered through 0.45u filter after every use for long-term storage.

IMAGES



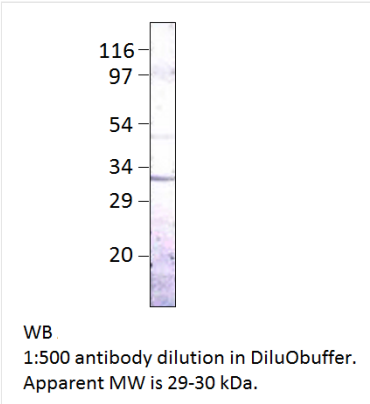
Rat Kidney- Aquaporin 9
Primary Antibody: 1:100 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin QS (blue) counterstain.
5X magnification on Leica DM4000. FFPE section.



Rat Kidney- Aquaporin 9
Primary Antibody: 1:100 dilution in IHC Blocking Buffer.
DAB (brown) staining and Hematoxylin QS (blue) counterstain.
40X magnification on Leica DM4000. FFPE section.

IHC (Immunohistochemistry)

IHC (Immunohistochemistry)



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-Aqp9 antibody	Water channel proteins, known as aquaporins, are transmembrane proteins that mediate osmotic water permeability. The discovery of aquaporin (AQP) has made a great impact on life sciences. 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 suggests that they might have some ecological relevance also. Early work of Nobel Prize winner, Peter Agre and his group first cloned a 269 amino acid protein from RBC and kidney libraries that has a 6 TMD (1). The amino terminal end of the protein was in the membrane and has 2 repeats that are at 180° to each other and are responsible for water selectivity. Now there are at least 12 isoforms of Aquaporins that have been cloned.
Product Categories/Family for anti-Aqp9 antibody	Primary Antibodies; Channels & Transporters; Aquaporin 9 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	12621144
NCBI GeneID	65054
NCBI Accession #	NP_075249
NCBI GenBank Nucleotide #	NM_022960.2
UniProt Accession #	P56627; O88815
Molecular Weight	31,871 Da
NCBI Official Full Name	aquaporin-9

NCBI Official Synonym Full Names	aquaporin 9
NCBI Official Symbol	Aqp9
NCBI Protein Information	aquaporin-9
UniProt Protein Name	Aquaporin-9
UniProt Gene Name	Aqp9
UniProt Synonym Gene Names	AQP-9
UniProt Entry Name	AQP9_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-9-antibody-western-blot-immunoprecipitation-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/75721>