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## Rabbit Polyclonal Aquaporin 8 Antibody

Catalog Number: AQP8-801AP

Lot Number:

### General Information

<b>Product</b>	Aquaporin 8 Antibody
<b>Accession #</b>	Uniprot: P56405 GenBank: BAA21918
<b>Verified Applications</b>	ELISA, IP, WB
<b>Species Cross Reactivity</b>	Bovine, Human, Sheep, Mouse, Rat
<b>Host</b>	Rabbit
<b>Immunogen</b>	Synthetic peptide taken within amino acid region 215-263 on rat Aquaporin 8 protein.
<b>Alternative Nomenclature</b>	AQP8 antibody

### Physical Properties

<b>Quantity</b>	100 µg
<b>Volume</b>	200 µl
<b>Form</b>	Affinity Purified Immunoglobulins
<b>Purity</b>	Antigen Affinity Purified
<b>Immunoglobulin &amp; Concentration</b>	0.50 mg/ml IgG in antibody stabilization buffer
<b>Storage</b>	Store at -20°C for long term storage.

### Recommended Dilutions

<b>DOT Blot</b>	1:10,000
<b>ELISA</b>	1:10,000
<b>Immunoprecipitation</b>	1:200
<b>Western Blot</b>	1:500

### Related Products

### Catalog #

<b>BIOTIN-Conjugated</b>	AQP8-BIOTIN
<b>FITC-Conjugated</b>	AQP8-FITC
<b>Antigenic Blocking Peptide</b>	P-AQP8
<b>Western Blot Positive Control</b>	PC-AQP8

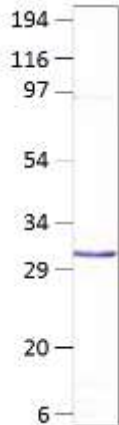
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## Application Verification:



WB with AQP8-801AP in PC-AQP8. 1:500 dilution in DiluObuffer.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

## Overview:

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 180° to each other and are responsible for water selectivity.

The AQP8 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 (P-AQP8) and western blot positive controls in ready to use SDS-sample buffer (PC-AQP8) are available. The APQ8 antibodies label a 30-31 protein in PC-AQP8 samples. Antibodies can be conjugated to fluorophores or other secondary enzymes upon request at nominal cost. For a complete listing of all FabGennix antibodies and lab services, please visit <http://fabgennix.com>.

## References:

1. Peter Agre The Aquaporin Water Channels. Proc. Thorac. Soc. 3, 5-13, 2006.
2. Guerin CF, Regli L, Badaut J. [Roles of Aquaporins in the brain] Med Sci (Paris). 2005 Aug-Sep;21(8-9):747-52.

\* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.