

## Recombinant Human AQP1, GST-tagged

**Cat. No.** AQP1-9779H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human AQP1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species**                      Human

**Source**                        E.coli

**ProteinLength**              C-term-50a.a.

**Description**                Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically resembles channel proteins and is abundant in erythrocytes and renal tubes. The gene encoding this aquaporin is a possible candidate for disorders involving imbalance in ocular fluid movement. Several transcript variants encoding different isoforms have been found for this gene.

**Storage**                        The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer**                1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	<a href="#">AQP1 aquaporin 1 (Colton blood group) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">AQP1</a>
<b>Synonyms</b>	AQP1; aquaporin 1 (Colton blood group); aquaporin 1 (channel forming integral protein, 28kDa) , aquaporin 1 (channel forming integral protein, 28kDa, CO blood group) , CO, Colton blood group; aquaporin-1; CHIP28; aquaporin-CHIP; Colton blood group; urine water channel; channel-like integral membrane protein, 28-kDa; water channel protein for red blood cells and kidney proximal tubule; aquaporin 1 (channel-forming integral protein, 28kDa, CO blood group); CO; AQP-CHIP; MGC26324;
<b>Gene ID</b>	<a href="#">358</a>
<b>mRNA Refseq</b>	<a href="#">NM_001185060</a>
<b>Protein Refseq</b>	<a href="#">NP_001171989</a>
<b>MIM</b>	<a href="#">107776</a>
<b>UniProt ID</b>	<a href="#">P29972</a>
<b>Chromosome Location</b>	7p14
<b>Pathway</b>	Aquaporin-mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Passive Transport by Aquaporins, organism-specific biosystem; Proximal tubule bicarbonate reclamation, organism-specific biosystem; Proximal tubule bicarbonate reclamation, conserved biosystem; Regulation of Water Balance by Renal Aquaporins, organism-specific biosystem;

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**Function**

ammonia transmembrane transporter activity; carbon dioxide transmembrane transporter activity; glycerol transmembrane transporter activity; intracellular cGMP activated cation channel activity; nitric oxide transmembrane transporter activity; potassium ch

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