

# Aquaporin 1 Rabbit mAb

Catalog # AP75096

## Product Information

---

Application	WB, IHC-P
Primary Accession	<a href="#">P29972</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	28526

## Additional Information

---

Gene ID	358
Other Names	AQP1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

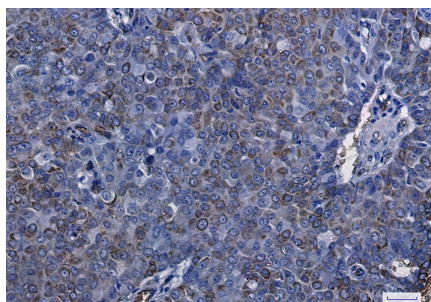
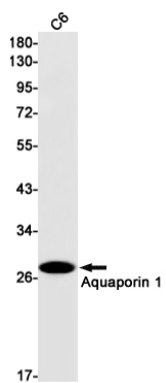
## Protein Information

---

Name	AQP1 ( <a href="#">HGNC:633</a> )
Function	<p>Forms a water channel that facilitates the transport of water across cell membranes, playing a crucial role in water homeostasis in various tissues (PubMed:<a href="#">1373524</a>, PubMed:<a href="#">23219802</a>). Could also be permeable to small solutes including hydrogen peroxide, glycerol and gases such as ammonia (NH<sub>3</sub>), nitric oxide (NO) and carbon dioxide (CO<sub>2</sub>) (PubMed:<a href="#">16682607</a>, PubMed:<a href="#">17012249</a>, PubMed:<a href="#">19273840</a>, PubMed:<a href="#">33028705</a>, PubMed:<a href="#">8584435</a>). Recruited to the ankyrin-1 complex, a multiprotein complex of the erythrocyte membrane, it could be part of a CO<sub>2</sub> metabolon, linking facilitated diffusion of CO<sub>2</sub> across the membrane, anion exchange of Cl<sup>-</sup>/HCO<sub>3</sub><sup>-</sup> and interconversion of dissolved CO<sub>2</sub> and carbonic acid in the cytosol (PubMed:<a href="#">17012249</a>, PubMed:<a href="#">35835865</a>). In vitro, it shows non-selective gated cation channel activity and may be permeable to cations like K<sup>+</sup> and Na<sup>+</sup> in vivo (PubMed:<a href="#">36949749</a>, PubMed:<a href="#">8703053</a>).</p>
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in erythrocytes (at protein level). Expressed in a number of tissues including erythrocytes, renal tubules, retinal pigment epithelium, heart, lung, skeletal muscle, kidney and pancreas. Weakly expressed in brain, placenta and liver

## Images

---



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.