

## Product datasheet for **CF502356**

### Aquaporin 1 (AQP1) Mouse Monoclonal Antibody [Clone ID: OTI10C11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10C11
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AQP1 (NP_932766) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	28.3 kDa
Gene Name:	aquaporin 1 (Colton blood group)
Database Link:	<a href="#">NP_932766</a> <a href="#">Entrez Gene 11826 Mouse</a> <a href="#">Entrez Gene 25240 Rat</a> <a href="#">Entrez Gene 358 Human</a> <a href="#">P29972</a>



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**Background:**

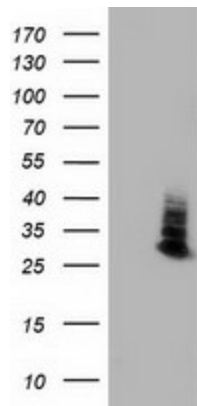
Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel protein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically 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. [provided by RefSeq]

**Synonyms:**

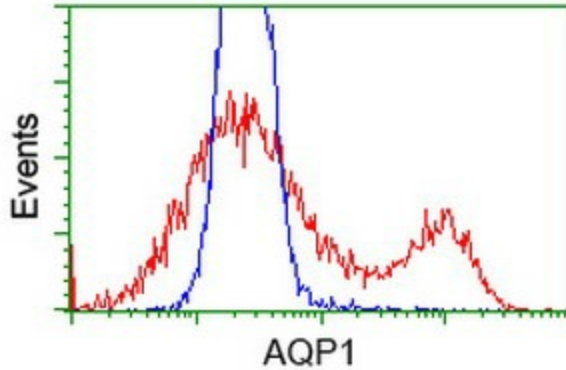
AQP-CHIP; CHIP28; CO

**Protein Families:**

Druggable Genome, Ion Channels: Other, Transmembrane

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AQP1 [RC205304], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AQP1. Positive lysates [LY403670] (100ug) and [LC403670] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC205304] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AQP1 antibody ([TA502356]), and then analyzed by flow cytometry.