

Aquaporin 2 Rabbit mAb
Catalog # AP75097**Specification**

Aquaporin 2 Rabbit mAb - Product Information

Application	WB
Primary Accession	P41181
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	28837

Aquaporin 2 Rabbit mAb - Additional Information

Gene ID 359

Other Names
AQP2**Dilution**
WB~~1/500-1/1000**Format**
Liquid**Aquaporin 2 Rabbit mAb - Protein Information**Name AQP2 ([HGNC:634](#))**Function**

Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient (PubMed: [15509592](http://www.uniprot.org/citations/15509592)), PubMed: [7510718](http://www.uniprot.org/citations/7510718), PubMed: [7524315](http://www.uniprot.org/citations/7524315), PubMed: [8140421](http://www.uniprot.org/citations/8140421), PubMed: [8584435](http://www.uniprot.org/citations/8584435)). Plays an essential role in renal water homeostasis (PubMed: [15509592](http://www.uniprot.org/citations/15509592), PubMed: [7524315](http://www.uniprot.org/citations/7524315), PubMed: [8140421](http://www.uniprot.org/citations/8140421)). Could also be permeable to glycerol (PubMed: [8584435](http://www.uniprot.org/citations/8584435)).

Cellular Location

Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P34080}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Note=Shuttles from

vesicles to the apical membrane (PubMed:15509592). Vasopressin-regulated phosphorylation is required for translocation to the apical cell membrane (PubMed:15509592). PLEKHA8/FAPP2 is required to transport AQP2 from the TGN to sites where AQP2 is phosphorylated (By similarity) {ECO:0000250|UniProtKB:P34080, ECO:0000269|PubMed:15509592}

Tissue Location

Expressed in collecting tubules in kidney medulla (at protein level) (PubMed:7510718). Detected in kidney (PubMed:7510718).

Aquaporin 2 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Aquaporin 2 Rabbit mAb - Images

