

Aquaporin 2 Rabbit mAb

Catalog # AP75097

Product Information

Application	WB, IHC-P, IP
Primary Accession	P41181
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	28837

Additional Information

Gene ID	359
Other Names	AQP2
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

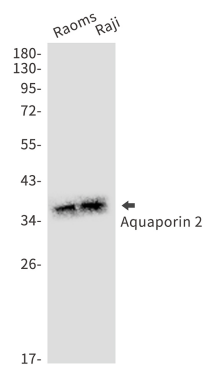
Protein Information

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 , PubMed: 7510718 , PubMed: 7524315 , PubMed: 8140421 , PubMed: 8584435). Plays an essential role in renal water homeostasis (PubMed: 15509592 , PubMed: 7524315 , PubMed: 8140421). Could also be permeable to glycerol (PubMed: 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).

Images



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