

Product datasheet for **TA326511**

Aqp2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB 1:1000-4000, IF: 1:400
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	C-terminal peptide
Formulation:	PBS pH7.4, 50% glycerol and 0.09% sodium azide
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	aquaporin 2
Database Link:	NP_037041 Entrez Gene 359 Human Entrez Gene 11827 Mouse Entrez Gene 25386 Rat P34080

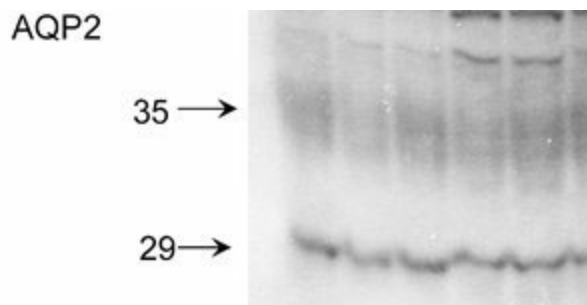
Background: Aquaporins selectively conduct water molecules in and out of the cell, while preventing the passage of ions and other solutes. Known as water channels, they are integral membrane pore proteins. Aquaporin 2 is the vasopressin-regulated water channel of the apical membrane of collecting duct cells. It is located in kidney epithelial cells and usually lies dormant in intracellular vesicle membranes. When it is needed vasopressin binds to the cell surface vasopressin receptor, activating a signaling pathway that cause AQP2 containing vesicles to fuse with the plasma membrane so the AQP2 can be used by the cell. Defects in AQP2 area cause of an autosomal dominant form of nephrogenic diabetes insipidus (NDI).

Synonyms: AQP-2; AQP-CD; aquaporin-CD; MGC34501; WCH-CD

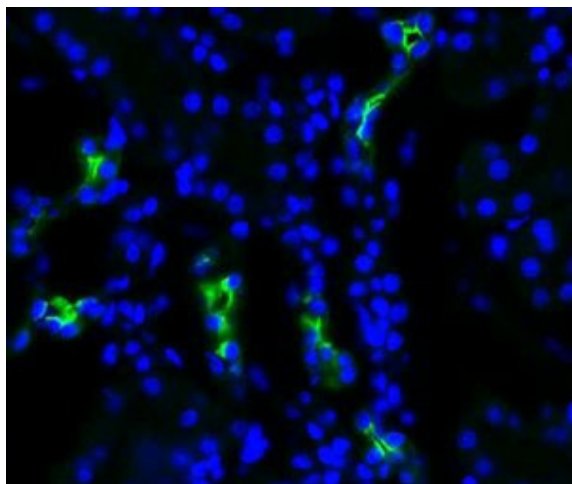
Note: Detects ~28.8kDa. May detect larger glycosylated bands ~35-50kDa.



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Product images:

Western blot analysis of Aquaporin 2 in rat kidney tissue using a 1 in 2000 dilution of the antibody



IF analysis of Aquaporin 2 in rat kidney tissues using a 1 in 200 dilution of the antibody