

Product datasheet for **TA326697**

Aquaporin 2 (AQP2) Rabbit Polyclonal Antibody

Product data:

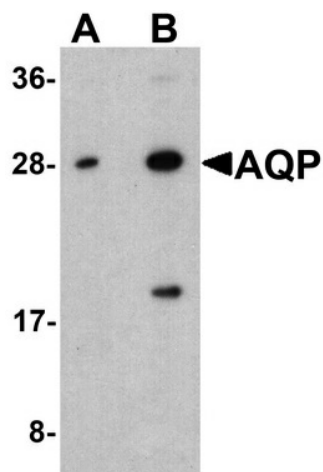
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	AQP2 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human AQP2.
Formulation:	AQP2 antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	AQP2 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 30 kDa; Observed: 28 kDa
Gene Name:	aquaporin 2
Database Link:	NP_000477 Entrez Gene 11827 MouseEntrez Gene 25386 RatEntrez Gene 359 Human P41181
Background:	Aquaporins are membrane proteins that serve in the transfer of water and small solutes across cellular membranes. One such aquaporin, aquaporin-2 (AQP2) is located in the kidney collecting tubule and plays a critical role in water reabsorption (1). AQP2 is mainly localized in intracellular vesicles but upon stimulation with anti-diuretic hormone (ADH), AQP2 is translocated to the apical plasma membrane by exocytic fusion of AQP2-bearing vesicles (2). Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus (3).
Synonyms:	AQP-CD; WCH-CD



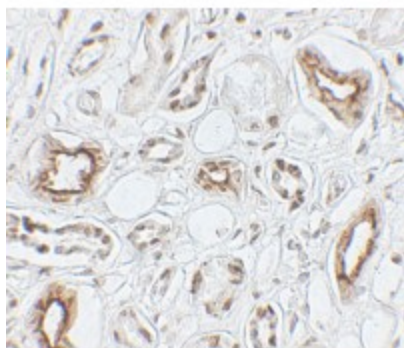
[View online »](#)

Protein Families: Druggable Genome, Transmembrane

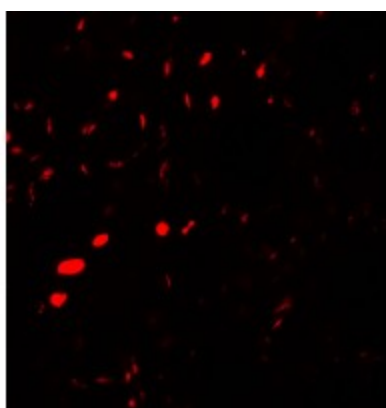
Product images:



Western blot analysis of AQP2 in A431 cell lysate with AQP2 antibody at (A) 1 and (B) 2 $\mu\text{g}/\text{mL}$.



Immunohistochemistry of AQP2 in human kidney tissue with AQP2 antibody at 5 $\mu\text{g}/\text{mL}$.



Immunofluorescence of AQP2 in human kidney tissue with AQP2 antibody at 20 $\mu\text{g}/\text{mL}$.