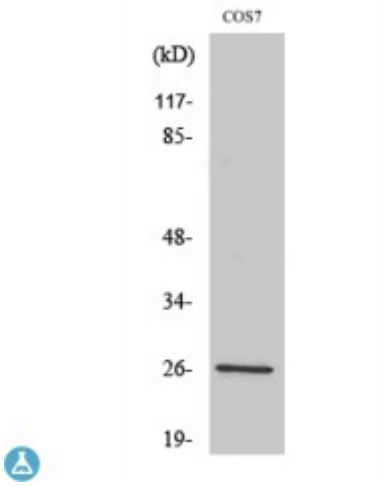
Anti-AQP2 antibody



Description	Rabbit polyclonal to AQP2.

Model	STJ91655
Host	Rabbit
Reactivity	Human, Mouse, Rat, Simian
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human AQP2 around the non-phosphorylation site of S256.
Immunogen Region	200-280 aa
Gene ID	359
Gene Symbol	AQP2
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	AQP2 Polyclonal Antibody detects endogenous levels of AQP2 protein.
Tissue Specificity	Expressed in renal collecting tubules.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Aquaporin-2 AQP-2 ADH water channel Aquaporin-CD AQP-CD Collecting duct water channel protein WCH-CD Water channel protein for renal collecting duct
Molecular Weight	29 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:634OMIM:107777
Alternative Names	Aquaporin-2 AQP-2 ADH water channel Aquaporin-CD AQP-CD Collecting duct water channel protein WCH-CD Water channel protein for renal collecting duct
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.
Sequence and Domain Family	Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).
Cellular Localization	Apical cell membrane Basolateral cell membrane Cytoplasmic vesicle membrane Golgi apparatus, trans-Golgi network membrane. Shuttles from vesicles to the apical membrane. Vasopressin-regulated phosphorylation is required for translocation to the apical cell membrane. PLEKHA8/FAPP2 is required to transport AQP2 from the TGN to sites where AQP2 is phosphorylated.
Post-translational Modifications	Ser-256 phosphorylation is necessary and sufficient for expression at the apical membrane. Endocytosis is not phosphorylation-dependent.