Anti-AQP3 antibody

Description	Rabbit polyclonal to AQP3.

Model	STJ91656
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC
Immunogen	Synthesized peptide derived from human AQP3.
Immunogen Region	Internal
Gene ID	360
Gene Symbol	AQP3
Dilution range	IHC 1:100-1:300ELISA 1:40000
Specificity	AQP3 Polyclonal Antibody detects endogenous levels of AQP3 protein.
Tissue Specificity	Widely expressed in epithelial cells of kidney (collecting ducts) and airways, in keratinocytes, immature dendritic cells and erythrocytes. Isoform 2 is not detectable in erythrocytes at the protein level.
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-3 AQP-3 Aquaglyceroporin-3
Molecular Weight	31.544 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:636OMIM:600170
Alternative Names	Aquaporin-3 AQP-3 Aquaglyceroporin-3
Function	Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism .
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	Basolateral cell membrane. Multi-pass membrane protein. In collecting ducts of kidney.