

Product datasheet

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ARG22360 anti-Aquaporin 2 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Aquaporin 2

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, WB

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

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Aquaporin 2

Species Rat

Immunogen Synthetic peptide around the C-terminus of Rat Aquaporin 2. (N-CLKGLEPDTDWEEREVRRRQ)

Conjugation Un-conjugated

Alternate Names Aquaporin-2; Aquaporin-CD; AQP-2; ADH water channel; Collecting duct water channel protein; Water

channel protein for renal collecting duct; AQP-CD; WCH-CD

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:400
	IHC-P	1:400
	WB	1:2000
Application Note	WB: $0.5~\mu g/ml$ of this antibody was sufficient for detection of aquaporin 2 in $10~\mu g$ of Rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-Rabbit IgG:HRP as the secondary antibody.	
	st The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Purification with Protein A and immunogen peptide.	
Buffer	PBS, 0.09% Sodium azide and 50% Glycerol.	
Preservative	0.09% Sodium azide	
Stabilizer	50% Glycerol	
Concentration	1 mg/ml	

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to 1-2 weeks. For long-term storage,

aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol Aqp2
Gene Full Name aquaporin 2

Background This gene encodes a water channel protein located in the kidney collecting tubule. It belongs to the

MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes

insipidus. [provided by RefSeq, Oct 2008]

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.

[UniProt]

Calculated Mw 28.8 kDa (unmodified); 35 - 50 kDa (glycosylated)

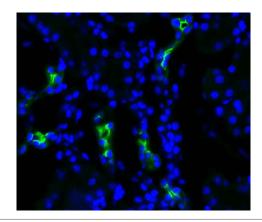
PTM Ser-256 phosphorylation is necessary and sufficient for expression at the apical membrane. Endocytosis is

not phosphorylation-dependent.

Cellular Localization Apical cell membrane, Basolateral Cell Membrane, Cell membrane, Cytoplasmic Vesicle, Cytoplasmic

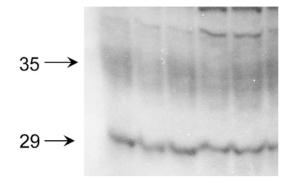
vesicle membrane, Golgi apparatus

Images



ARG22360 anti-Aquaporin 2 antibody IHC image

Immunohistochemistry: Rat kidney tissue stained with ARG22360 anti-Aquaporin 2 antibody (green) at 1:200 dilution.



ARG22360 anti-Aquaporin 2 antibody WB image

Western blot: Rat kidney inner medullary homogenates stained with ARG22360 anti-Aquaporin 2 antibody at 1:2000 dilution. Showing glycosylated and non-glycosylated bands.