

ARG22362 anti-Aquaporin 3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Aquaporin 3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Aquaporin 3
Species	Rat
Immunogen	Synthetic peptide around the C-terminus of Rat Aquaporin 3. (N-CHLEQPPPSTEAEENVKLAHMKHKEQI)
Conjugation	Un-conjugated
Alternate Names	Aquaporin-3; GIL; Aquaglyceroporin-3; AQP-3

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:400
	IHC	1:200
	WB	1:2000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

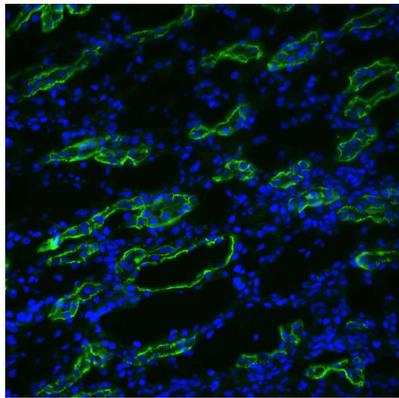
Properties

Form	Liquid
Purification	Purification with Protein A.
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 a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

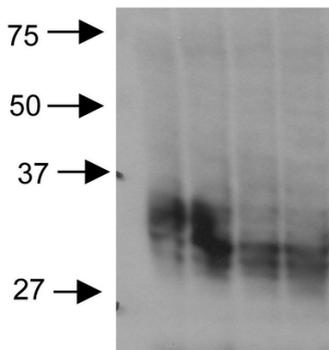
Gene Symbol	Aqp3
Gene Full Name	aquaporin 3
Background	This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. [provided by RefSeq, Aug 2011]
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 (By similarity). [UniProt]
Calculated Mw	31.5 kDa (unmodified); 35 - 50 kDa (glycosylated)
Cellular Localization	Membrane

Images



ARG22362 anti-Aquaporin 3 antibody IHC image

Immunohistochemistry: Rat kidney tissue stained with ARG22362 anti-Aquaporin 3 antibody (green) at 1:200 dilution. DAPI merge.



ARG22362 anti-Aquaporin 3 antibody WB image

Western blot: Rat kidney inner medullary homogenates stained with ARG22362 anti-Aquaporin 3 antibody at 1:2000 dilution.