

Datasheet for ABIN6656923
anti-Aquaporin 1 antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	Aquaporin 1 (AQP1)
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aquaporin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	Aquaporin 1 Antibody
Immunogen:	Aquaporin 1 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to the N-terminal region of rat aquaporin 1.
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Aquaporin 1 from Human, Mouse, and Rat based on 100 % homology with the immunizing sequence.
Purification:	Anti-Aquaporin 1 Antibody was purified by affinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Aquaporin 1 (AQP1)
Alternative Name:	Aquaporin 1 (AQP1 Products)
Background:	<p>Synonyms: AQP1, Water channel protein CHIP29, Aquaporin-CHIP, Water channel protein for red blood cells and kidney proximal tubule, Aquaporin-1, Chip28</p> <p>Background: Aquaporins selectively conduct water molecules in and out of the cell, while preventing the passage of ions and other solutes. Known as water channels, they are integral membrane pore proteins. Aquaporin 1 is a widely expressed water channel, found in the basolateral and apical plasma membranes of the proximal tubes, the descending loop of Henle and in the descending portion of the vasa recta. Additionally it is found in red blood cells, vascular endothelium, gastrointestinal tract, sweat glands and lungs. It is not regulated by vasopressin.</p> <p>Gene Name: Aqp1</p>
Gene ID:	25240
NCBI Accession:	NP_036910
UniProt:	P29975
Pathways:	Hormone Transport

Application Details

Application Notes:	IF_Microscopy_Dilution: 1:200-400 Western_Blot_Dilution: 1:1000-4000
Comment:	Anti-Aquaporin 1 Antibody is tested for use in WB, IHC, and IF microscopy. Expect a band approximately ~28.5kDa on specific lysates. May detect larger glycosylated bands ~35-50kDa. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

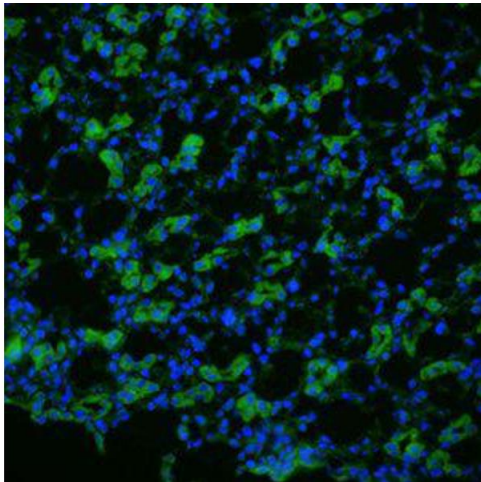
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol Preservative: 0.1 % (w/v) Sodium Azide
Preservative:	Sodium azide

Handling

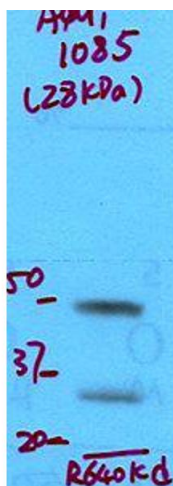
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Immunofluorescence

Image 1. Aquaporin 1 Immunofluorescence. Immunofluorescence Microscopy of Rabbit anti-Aquaporin-1 antibody. Tissue: Rat kidney. Fixation: N/A. Primary Antibody: Aquaporin-1 at 1:200 for 1h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min RT. Localization: Membrane. Staining: anti-Aquaporin-1 green fluorescent with DAPI stain merge.



Western Blotting

Image 2. Aquaporin 1 Western Blot. Western Blot of Rabbit anti-Aquaporin-1 Antibody. Lane 1: Rat kidney. Lane 2: none. Load: 20ug per lane. Primary antibody: Aquaporin 1 at 1:2000 for overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP antibody at 1:40,000 for 45 min at RT. Block: 5% Blotto overnight at 4°C. Predicted/Observed size: ~28.5kDa. May detect larger glycosylated bands ~35-50kDa.