

Datasheet for ABIN863209 anti-Aquaporin 4 antibody (C-Term)

2 Images

1 Publication



Overview

Quantity:	100 µg
Target:	Aquaporin 4 (AQP4)
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aquaporin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Produced against the C-terminal peptide (Sequence N-CTKGSYMEVEDNRSQVETED) of rat aquaporin 4
Specificity:	Detects ~35 kDa. May detect larger glycosylated bands ~50 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein A Purified
Target Details	
Target:	Aquaporin 4 (AQP4)

Alternative Name:	Aquaporin 4 (AQP4 Products)

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Target Details

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 (1, 2). Aquaporin 4 is constitutively expressed in the basolateral cell membrane of principal collecting duct cells in the kidney and provide a pathway for water to exit these cells (3). It is also expressed in astrocytes and is up regulated by direct insult to the CNS (4). Aquaporin 4 has been proposed as the primary autoimmune target in neuromyelitis optica (5, 6).
Gene ID:	25293
NCBI Accession:	NP_036957
UniProt:	P47863
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	 WB (1:2000) IHC (1:200) ICC/IF (1:400) optimal dilutions for assays should be determined by the user.
Comment:	0.5 μg/ml of ABIN863209 was sufficient for detection of aquaporin 4 in 10 μg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

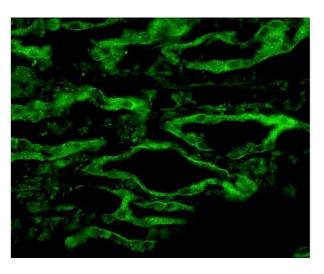
Handling

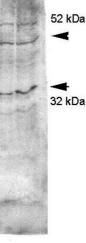
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

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Gatto, Amin, Deyoung, Hey, Mareci, Magin: "Ultra-High Field Diffusion MRI Reveals Early Axonal Pathology in Spinal Cord of ALS mice." in: **Translational neurodegeneration**, Vol. 7, pp. 20, (2018) (PubMed).

Images





Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-Aquaporin 4 Polyclonal Antibody (ABIN863209). Tissue: kidney tissue. Species: Rat. Fixation: 4 % paraformaldehydelysine-periodate. Primary Antibody: Rabbit Anti-Aquaporin 4 Polyclonal Antibody (ABIN863209) at 1:200 for 75 min at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) for 1 hour at RT. 4 µm cryostat sections.

Western Blotting

Image 2. Western Blotting 1 in 2000 rat kidney lysate glycos and non glycos.

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