Datasheet for ABIN2486392

anti-Aquaporin 4 antibody (C-Term) (Alkaline Phosphatase (AP))

2 Images

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Overview

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

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)

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 ABIN2486392 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:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

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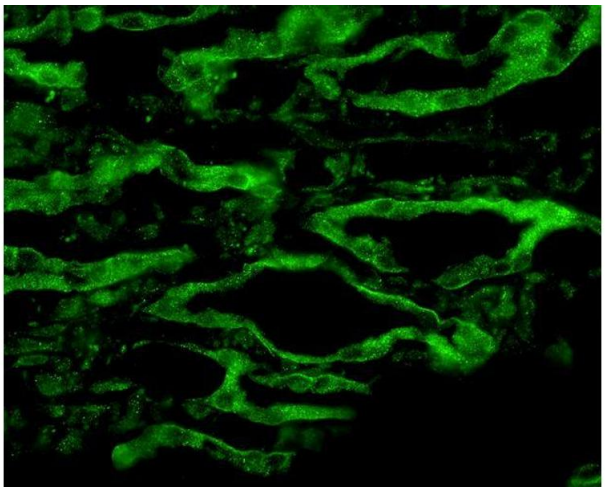
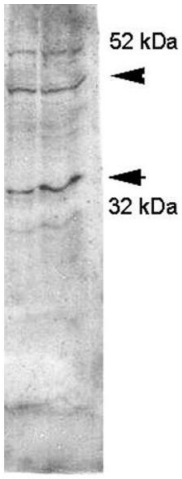


Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-Aquaporin 4 Polyclonal Antibody . Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-Aquaporin 4 Polyclonal Antibody at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).



Western Blotting

Image 2. Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 4 protein using Rabbit Anti-Aquaporin 4 Polyclonal Antibody . Primary Antibody: Rabbit Anti-Aquaporin 4 Polyclonal Antibody at 1:2000.