



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Aquaporin 4 Antibody

Rabbit Anti-Rat Aquaporin 4 Polyclonal
Catalog No. SPC-505



Discovery through partnership | Excellence through quality

Overview

Product Name

Aquaporin 4 Antibody

Description

Rabbit Anti-Rat Aquaporin 4 Polyclonal

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:2000), IHC (1:200), ICC/IF (1:400); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Rat

Immunogen

Produced against the C-terminal peptide (Sequence N-CTKGSYMEVEDNRSQVETED) of rat aquaporin 4

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein A purified

Clonality

Polyclonal

Specificity

Detects ~35kDa. May detect larger glycosylated bands ~50kDa.

Cite This Product

Rabbit Anti-Rat Aquaporin 4 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-505)

Certificate Of Analysis

0.5 µg/ml of SPC-505 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.

Biological Description

Alternative Names

AQP 4 Antibody, AQP-4 Antibody, AQP4 Antibody, AQP4_HUMAN Antibody, Aquaporin type 4 Antibody, Aquaporin-4 Antibody, Aquaporin4 Antibody, HMIWC 2 Antibody, HMIWC2 Antibody, Mercurial insensitive water channel Antibody, Mercurial-insensitive water channel Antibody, MGC22454 Antibody, MIWC Antibody, WCH 4 Antibody, WCH4 Antibody

Research Areas

Aquaporins, Ion Channels, Neuroscience

Cellular Localization

Membrane

Accession Number

NP_036957.1

Gene ID

25293

Swiss Prot

P47863

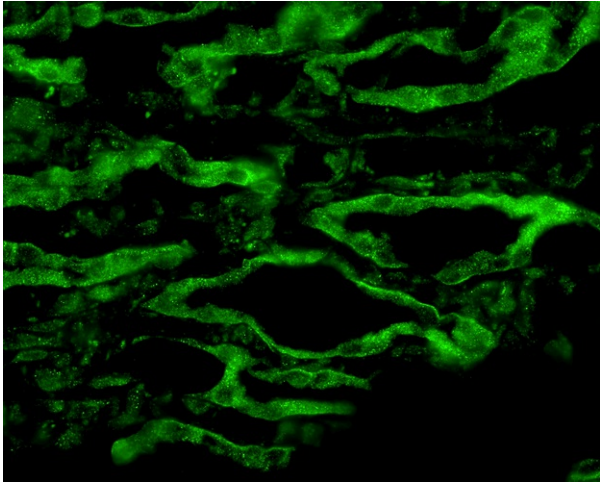
Scientific Background

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).

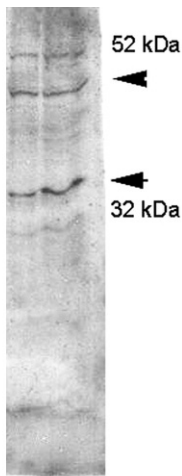
References

1. Gonen T., Walz T. (2006) Q. Rev. Biophys. 39(4): 361-396.
 2. Knepper M.A. (1994) Proc Natl. Acad Sci. USA. 91(14): 6255-6258.
 3. Agre P., Nielsen S. (1996) Nephrologie. 17(7): 409-415.
 4. Nagelhus E.A., Mathiesen T.M., Ottersen O.P. (2004) Neuroscience. 129(4): 905-913.
 5. Lennon V.A., Kryzer T.J., Pittock S.J., Verkman A.S., Hinson S.R. (2005) J Exp Med. 202(4): 473-477.
 6. Bradl M., Lassmann D.H. (2008) Int. MS Journal/MS Forum. 15(3): 75-78.
-

Product Images



Immunohistochemistry analysis using Rabbit Anti-Aquaporin 4 Polyclonal Antibody (SPC-505). Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-Aquaporin 4 Polyclonal Antibody (SPC-505) at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).



Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 4 protein using Rabbit Anti-Aquaporin 4 Polyclonal Antibody (SPC-505). Primary Antibody: Rabbit Anti-Aquaporin 4 Polyclonal Antibody (SPC-505) at 1:2000.

Product Citations (1)

Other Citations

Inhibition of Mitochondrial Complex-1 Restores the Downregulation of Aquaporins in Obstructive Nephropathy.

Sun, Y. et al. -2016 Am J Physiol Renal Physiol. [Epub ahead of print]

PubMed ID: 27413198

Reviews

There are no reviews yet.