



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-Aquaporin 3 Antibody

Rabbit Anti-Rat Aquaporin 3 Polyclonal  
Catalog No. SPC-504



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Aquaporin 3 Antibody

### Description

Rabbit Anti-Rat Aquaporin 3 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-CHLEQPPPSTEAEENVKLAHMKHKEQI) of rat aquaporin 3

### 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

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### Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein A purified

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### Clonality

Polyclonal

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### Specificity

Detects ~31.5kDa. May detect larger glycosylated bands ~35-50kDa.

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### Cite This Product

Rabbit Anti-Rat Aquaporin 3 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-504)

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### Certificate Of Analysis

0.5 µg/ml of SPC-504 was sufficient for detection of aquaporin 3 in 10 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

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## Biological Description

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### Alternative Names

AQP3 Antibody, AQP 3 Antibody, AQP-3 Antibody, Aqp3 Antibody, AQP3\_HUMAN Antibody, Aquaglyceroporin-3 Antibody, Aquaporin 3 (GIL blood group) Antibody, Aquaporin 3 (Gill blood group) Antibody, Aquaporin-3 Antibody, Aquaporin3 Antibody, GIL Antibody, Gill blood group Antibody

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### Research Areas

Aquaporins, Ion Channels, Neuroscience

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### Cellular Localization

Membrane

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### Accession Number

NP\_113891.1

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### Gene ID

65133

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### Swiss Prot

P47862

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### 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 3 is found in the basolateral cell membrane of principal collecting duct cells and provide a pathway for water to exit these cells (3). AQP3 gene expression is not regulated by vasopressin (4).

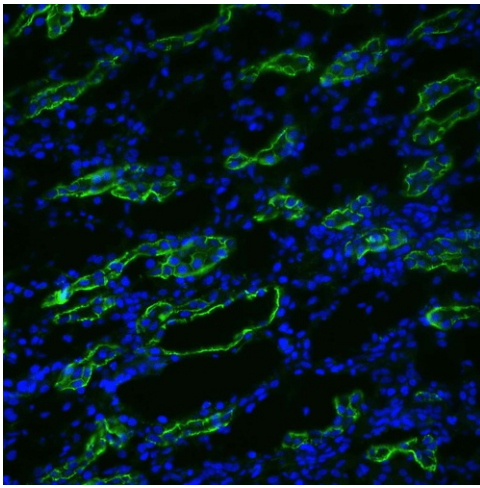
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### References

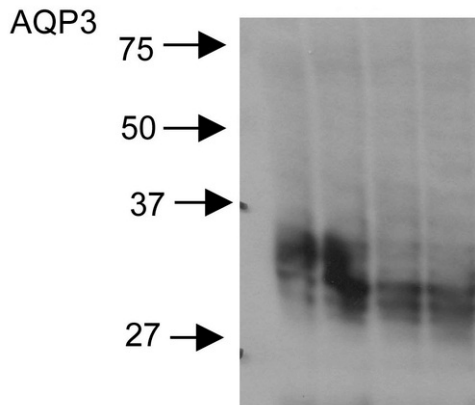
1. Gonen T., Walz T. (2006) Q. Rev. Biophys. 39(4): 361-396.
  2. Knepper M.A. (1994) Proc Natl. Acad Sci. USA. 91(14): 6255-6258.
  3. Sasaki S., Ishibashi K., and Marumo F. (1998) Annu Rev Physiol. 60: 199-220.
  4. Dibas A.I., Mia A.J., Yorio T. (1998) Proc Soc Exp Med. 219(3): 183-199.
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## Product Images

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Immunohistochemistry analysis using Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504). Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504) at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).



Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin 3 protein using Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504). Primary Antibody: Rabbit Anti-Aquaporin 3 Polyclonal Antibody (SPC-504) at 1:2000.

## Product Citations (1)

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### Other Citations

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#### **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

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There are no reviews yet.