



# 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

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## Anti-Cav1.3 Antibody [S48A-9]

Mouse Anti-Rat Cav1.3 Monoclonal IgG2a Kappa  
Catalog No. SMC-301



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

Cav1.3 Antibody

#### Description

Mouse Anti-Rat Cav1.3 Monoclonal IgG2a Kappa

#### Species Reactivity

Human, Mouse, Rat

#### Applications

WB, IHC, ICC/IF, IP

#### Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

#### Host Species

Mouse

#### Immunogen Species

Rat

#### Immunogen

Fusion protein amino acids 859-875 of rat Cav1.3

#### 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 pH7.4, 50% glycerol, 0.09% sodium azide

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S48A-9

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**Isotype**

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IgG2a Kappa

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**Specificity**

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Detects ~250kDa. No cross-reactivity against Cav1.2.

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**Cite This Product**

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Mouse Anti-Rat Cav1.3 Monoclonal, Clone S48A-9 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-301)

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**Certificate Of Analysis**

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1 µg/ml of SMC-301 was sufficient for detection of Cav1.3 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

alpha-1 polypeptide Antibody, CAC1D\_HUMAN Antibody, CACH3 Antibody, CACN4 Antibody, CACNA 1D Antibody, Cacna1d Antibody, CACNL1A2 Antibody, Calcium channel Antibody, Calcium channel L type alpha 1 polypeptide isoform 2 Antibody, Calcium channel neuroendocrine/brain type alpha 1 subunit Antibody, Calcium channel voltage dependent L type alpha 1D subunit Antibody, CCHL1A2 Antibody, isoform 2 Antibody, L type Antibody, Voltage dependent L type calcium channel subunit alpha 1D Antibody, Voltage gated calcium channel alpha 1 subunit Antibody, Voltage gated calcium channel alpha subunit Cav1.3 Antibody, Voltage gated calcium channel subunit alpha Cav1.3 Antibody, Voltage-dependent L-type calcium channel subunit alpha-1D Antibody, Voltage-gated calcium channel subunit alpha Cav1.3 Antibody

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**Research Areas**

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Cancer, Calcium Channels, Cell Signaling, Ion Channels, Neuroscience, Voltage-Gated Calcium Channels

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**Cellular Localization**

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Cell membrane, Membrane

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**Accession Number**

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NP\_058994.1

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**Gene ID**

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29716

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**Swiss Prot**

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P27732

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**Scientific Background**

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CaV1.3, also known as the calcium channel, voltage-dependent, L type, alpha 1D subunit (CACNA1D), is a human gene. CaV1.3 subunits are primarily expressed in neurons and neuroendocrine cells. Some studies suggest however that CaV1.3 is also found in the atria, and may figure prominently in atrial arrhythmias (1). CaV1.3 also carries the primary sensory receptors of the mammalian cochlea, and are also expressed in the electromotile outer hair cells (2).

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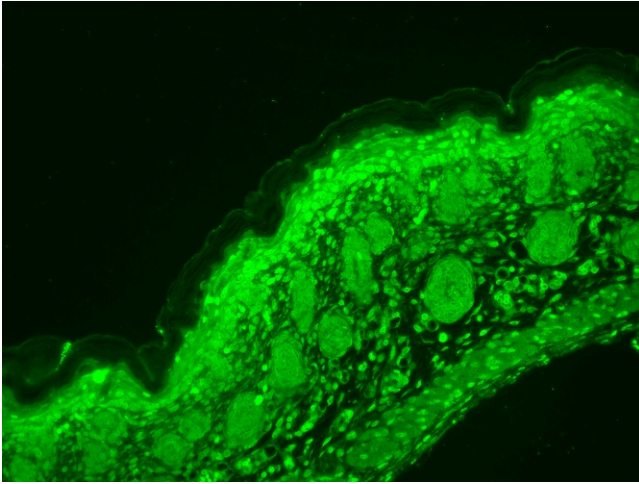
## References

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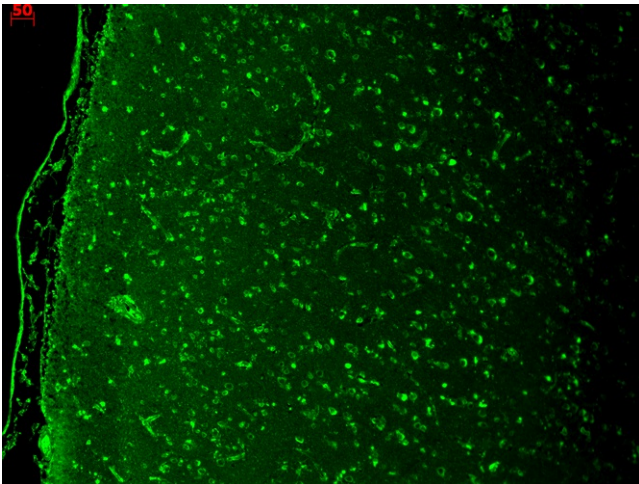
1. Zhang Z., et al. (2005) Circulation 112: 1936-1944.
  2. Johnson S.L. and Marcotti W. (2008) The Journal of Physiology. 586: 1029-1042.
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## Product Images

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Immunohistochemistry analysis using Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody, Clone S48A-9 (SMC-301). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody (SMC-301) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry analysis using Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody, Clone S48A-9 (SMC-301). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody (SMC-301) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

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## Product Citations (2)

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### Other Citations

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#### **Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.**

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

**PubMed ID:**    **Reactivity:** Human    **Applications:** Antibody Microarray

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**PubMed ID:**    **Reactivity:** Mouse    **Applications:** Antibody Microarray

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## Reviews

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There are no reviews yet.