



# SZABO SCANDIC

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## 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

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## Anti-Cav1.2 Antibody [S57-46]

Mouse Anti-Rabbit Cav1.2 Monoclonal IgG1  
Catalog No. SMC-300



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

Cav1.2 Antibody

#### Description

Mouse Anti-Rabbit Cav1.2 Monoclonal IgG1

#### Species Reactivity

Human, Mouse, Rat, Hamster

#### Applications

WB, IHC, ICC/IF, IP

#### Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100), IP (1:200); optimal dilutions for assays should be determined by the user.

#### Host Species

Mouse

#### Immunogen Species

Rabbit

#### Immunogen

Fusion protein amino acids 1507-1733 (intracellular carboxyl terminus) of rabbit Cav1.2

#### 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, 0.1% 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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S57-46

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**Isotype**

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IgG1

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**Specificity**

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Detects ~240kDa (varies with cell background due to glycosylation).

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**Cite This Product**

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Mouse Anti-Rabbit Cav1.2 Monoclonal, Clone S57-46 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-300)

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**Certificate Of Analysis**

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1 µg/ml of SMC-300 was sufficient for detection of Cav1.2 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**

CACH3 Antibody, CACNA4 Antibody, CACNA 1D Antibody, CACNL1A2 Antibody, voltage dependent L type calcium channel subunit alpha 1D Antibody, alpha-1 subunit voltage-dependent calcium channel Antibody, calcium channel voltage-dependent L type alpha 1C subunit1 Antibody, voltage-gated calcium channel alpha subunit Cav1.2 Antibody, calcium channel L type Antibody, alpha 1 polypeptide isoform 1 cardiac muscle Antibody, calcium channel cardiac dihydropyridine-sensitive alpha-1 subunit Antibody, voltage-gated L-type calcium channel Cav1.2 alpha 1 subunit splice variant 10 Antibody, DHPR alpha-1 subunit Antibody, Voltage-gated calcium channel subunit alpha Cav1.2 Antibody, Calcium channel L type alpha-1 polypeptide isoform 1 cardiac muscle Antibody

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**Research Areas**

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Cancer, Calcium Channels, Cardiovascular System, Cell Signaling, Heart, 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\_001129994.1

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**Gene ID**

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100144322

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**Swiss Prot**

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P15381

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**Scientific Background**

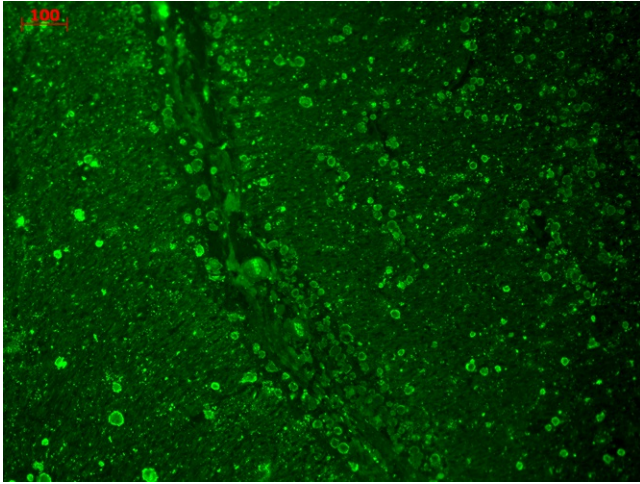
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Cav1.2 is a cardiac L-type calcium channel, and is important for excitation and contraction of the heart (1). It may be associated with a variant of Long QT syndrome called Timothy's syndrome (2, 3) and also with Brugada syndrome. Some references also suggest it is related to bipolar disease as well (3).

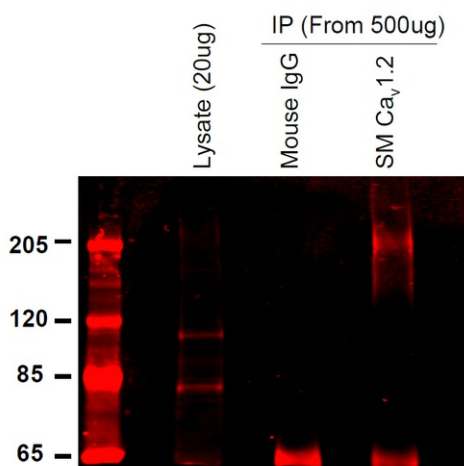
## References

1. Splawski I., et al. (2004) Cell. 119 (1): 19-31.
2. Krey J.F., and Dolmetsch R. (2009) Biophysical. 96 (3): 221a-222a.
3. Crotti L., Celano G., Dagradi F. and Schwartz P.J. (2008) Orphanet J Rare Disease 3:18.

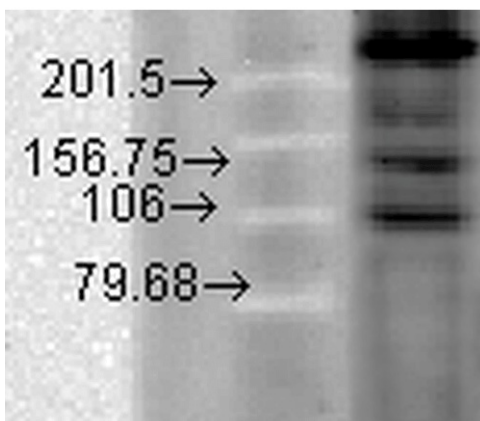
## Product Images



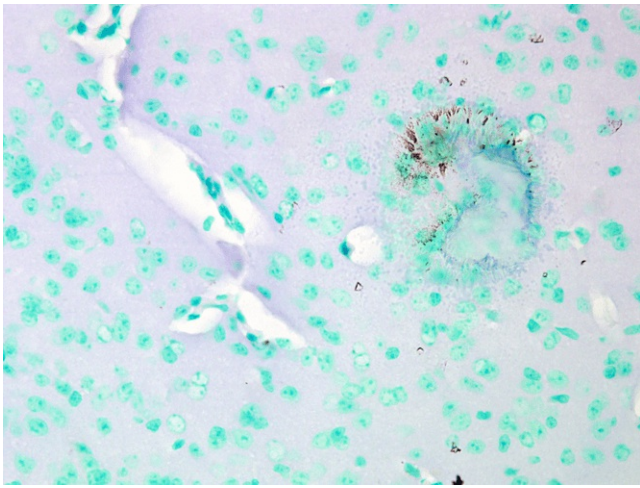
Immunohistochemistry analysis using Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody, Clone S57-46 (SMC-300). Tissue: hippocampus. Species: Human. Fixation: 10% formalin. Primary Antibody: Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody (SMC-300) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunoprecipitation analysis using Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody, Clone S57-46 (SMC-300). Tissue: INS-1E cells. Species: Rat. Primary Antibody: Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody (SMC-300) at 1:200. Courtesy of: Merrie Mosedale.



Western Blot analysis of Hamster T-CHO cell lysate showing detection of CaV1.2 Calcium Channel protein using Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody, Clone S57-46 (SMC-300). Primary Antibody: Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody (SMC-300) at 1:1000.



Immunohistochemistry analysis using Mouse Anti-CaV1.2 Calcium channel Monoclonal Antibody, Clone S57-47 (SMC-300). Tissue: Brain Tissue. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-CaV1.2 Calcium channel Monoclonal Antibody (SMC-300) at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200  $\mu$ l for 2 minutes at RT. Magnification: 40x.

## 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

## Reviews

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There are no reviews yet.