



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-SUR1 Antibody [S289-16]

Mouse Anti-Rat SUR1 Monoclonal IgG1  
Catalog No. SMC-409



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

SUR1 Antibody

### Description

Mouse Anti-Rat SUR1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat, Hamster

### Applications

WB, IHC, ICC/IF

### 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 1548-1582 (cytoplasmic C-terminus) of rat SUR1

### 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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S289-16

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**Isotype**

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IgG1

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**Specificity**

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Detects ~160kDa. Does not cross-react with SUR2B.

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**Cite This Product**

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Mouse Anti-Rat SUR1 Monoclonal, Clone S289-16 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-409)

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**Certificate Of Analysis**

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1 µg/ml of SMC-409 was sufficient for detection of SUR1 in 20 µg of mouse brain membrane lysate and assayed 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**

AM60008PU-N Antibody, ABC36 Antibody, Abcc8 Antibody, ATP binding cassette sub family C member 8 Antibody, HHF1 Antibody, HRINS Antibody, MRP8 Antibody, PHHI Antibody, SUR Antibody, SUR1 Antibody, Sulfonylurea receptor (hyperinsulinemia) Antibody, ATP binding cassette sub family C (CFTR/MRP) member 8 Antibody, ATP binding cassette transporter sub family C member 8 (1) Antibody, ATP-binding cassette sub-family C member 8 Antibody, HI Antibody, PHHI Antibody, Sulfonylurea receptor 1 Antibody, SUR1delta2 Antibody, TNDM2 Antibody

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**Research Areas**

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Cancer, Atherosclerosis, Cardiovascular System, Cell Signaling, Cell Structure, Heart, Membrane Markers, Neuroscience

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**Cellular Localization**

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Membrane

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**Accession Number**

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NP\_037171.2

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**Gene ID**

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25559

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**Swiss Prot**

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Q09429

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**Scientific Background**

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Sulfonylurea receptors (SUR) are membrane proteins which are the molecular targets of the sulfonylurea class of anti-diabetic drugs whose mechanism of action is to promote insulin release from pancreatic beta cells. More specifically, SUR proteins are subunits of the inward-rectifier potassium ion channels Kir6.x (6.1 and 6.2) (1). The association of four Kir6.x and four SUR subunits form an ion conducting channel commonly referred to as the KATP channel. The primary function of the sulfonylurea receptor is to sense intracellular levels of the nucleotides ATP and ADP and in response facilitate the open or closing its associated Kir6.x potassium channel. Hence the KATP channel monitors the energy balance within the cell (2).

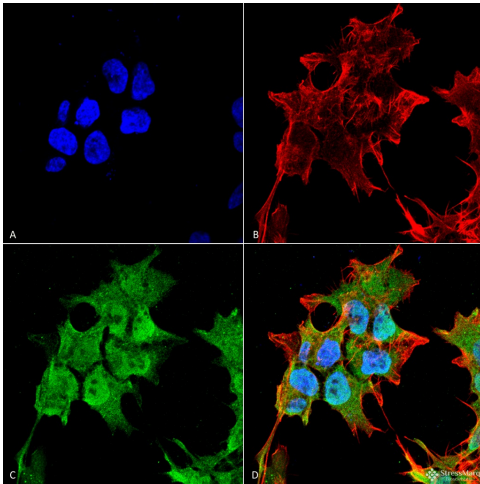
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## References

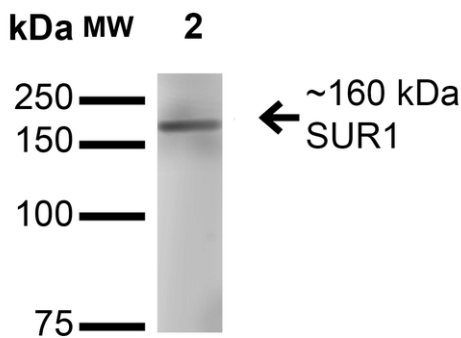
1. Campbell J.D., Sansom M.S., Ashcroft F.M. (2003) EMBO Resp. 4(11): 1038-1042.
  2. Nichols C.G. (2006) Nature. 440 (7083): 470-476.
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## Product Images

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Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (SMC-409). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (SMC-409) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SUR1 Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of ~160 kDa SUR1 protein using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (SMC-409). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15 µg . Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (SMC-409) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~160 kDa.

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## Product Citations (0)

Currently there are no citations for this product.

## Reviews

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There are no reviews yet.