



# 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-VDAC1 Antibody [S152B-23]

Mouse Anti-Human VDAC1 Monoclonal IgG2a  
Catalog No. SMC-456



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

VDAC1 Antibody

### Description

Mouse Anti-Human VDAC1 Monoclonal IgG2a

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, ICC/IF

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Human

### Immunogen

Fusion protein amino acids 1-283 (full-length) of human VDAC1. Mouse: 98% identity (279/283 amino acids identical). Rat: 98% identity (279/283 amino acids identical) >60% identity with VDAC2 and VDAC3.

### 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 pH 7.4, 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**

Monoclonal

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**Clone Number**

S152B-23

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**Isotype**

IgG2a

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**Specificity**

Detects ~30kDa. Does not cross-react with VDAC2 or VDAC3 (based on KO validation results).

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**Cite This Product**

Mouse Anti-Human VDAC1 Monoclonal, Clone S152B-23 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-456)

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**Certificate Of Analysis**

1 µg/ml of SMC-456 was sufficient for detection of VDAC1 in 20 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**

Voltage Dependent Anion Channel 1 Antibody, Porin Antibody, Voltage dependent anion selective channel protein 1 Antibody, Voltage-dependent anion-selective channel protein 1 Antibody, hVDAC1 Antibody, MGC111064 Antibody, Mitochondrial Porin Antibody, Outer mitochondrial membrane protein porin 1 Antibody, Plasmalemmal porin Antibody, Porin 31HL Antibody, Porin 31HM Antibody, PORIN-31-HL Antibody, VDAC 1 Antibody, VDAC Antibody, VDAC-1 Antibody

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**Research Areas**

Cancer, Cell Signaling, Ion Channels, Neuroscience

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**Cellular Localization**

Cell membrane, Mitochondrion, Mitochondrion outer membrane

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**Accession Number**

NP\_003365.1.

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**Gene ID**

7416

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**Swiss Prot**

P21796

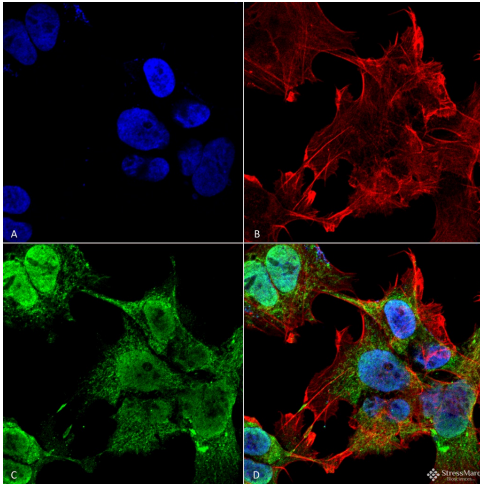
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**Scientific Background**

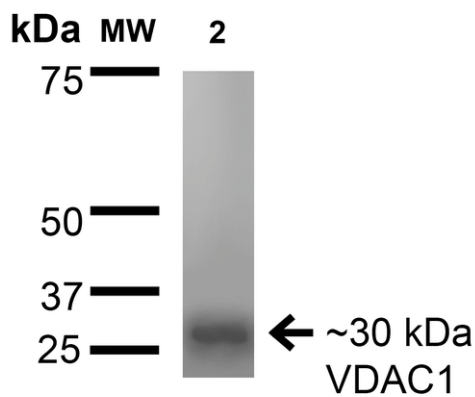
Voltage-dependent anion-selective channel protein 1 (also known as VDAC, VDAC1 or outer mitochondrial membrane protein porin 1) is the the outer mitochondrial membrane receptor for hexokinase and BCL2L1. VDAC forms a channel through the mitochondrial membrane and is involved in small molecule diffusion, cell volume regulation and apoptosis. VDAC may participate in the formation of the permeability transition pore complex (PTPC), which is responsible for the release of mitochondrial products that triggers apoptosis.

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**Product Images**



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VDAC1 Monoclonal Antibody, Clone S152B-23 (SMC-456). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VDAC1 Monoclonal Antibody (SMC-456) 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 60 min RT, 5 min RT. Localization: Mitochondrion, Mitochondrion Outer Membrane, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) VDAC1 Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of ~30 kDa VDAC1 protein using Mouse Anti-VDAC1 Monoclonal Antibody, Clone S152B-23 (SMC-456). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15  $\mu$ g. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-VDAC1 Monoclonal Antibody (SMC-456) 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: ~30 kDa.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.