

**VDAC1 Antibody**  
**VDAC1 Antibody, Clone S152B-23**  
**Catalog # ASM10290****Specification**

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**VDAC1 Antibody - Product Information**

Application	<b>ICC/IF, WB</b>
Primary Accession	<a href="#">P21796</a>
Other Accession	<a href="#">NP_003365.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG2a</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human VDAC1 Monoclonal IgG2a

**Target/Specificity**

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

**Other 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

**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) &gt;60% identity with VDAC2 and VDAC3.

**Purification**

Protein G Purified

Storage **-20°C****Storage Buffer**

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature **Blue Ice or 4°C****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.

**Cellular Localization**

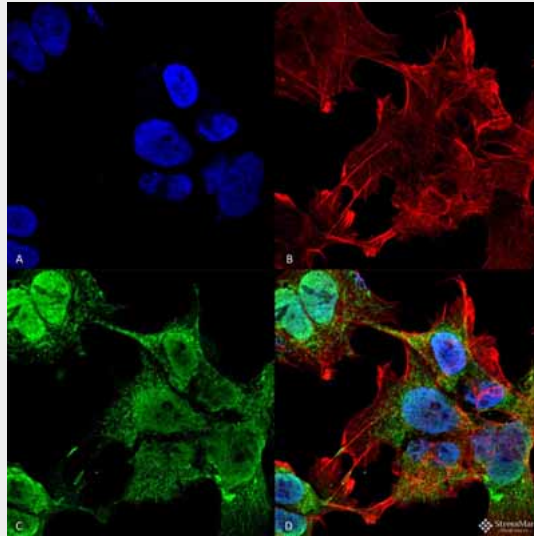
Mitochondrion | Mitochondrion Outer Membrane | Cell Membrane

**VDAC1 Antibody - Protocols**

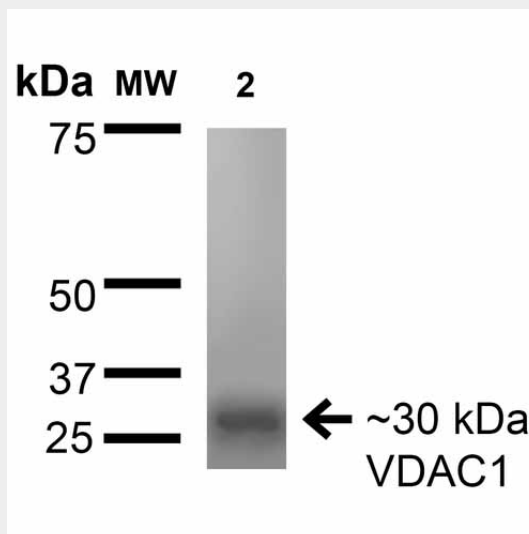
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### VDAC1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-VDAC1 Monoclonal Antibody, Clone S152B-23 (ASM10290). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-VDAC1 Monoclonal Antibody (ASM10290) 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 (ASM10290). 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-VDAC1 Monoclonal Antibody (ASM10290) 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.

### **VDAC1 Antibody - 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.