

Cav3.1 Antibody

Cav3.1 Antibody, Clone S178A-9 Catalog # ASM10239

Specification

Cav3.1 Antibody - Product Information

Application WB
Primary Accession Q9WUT2

Other Accession NP 001106284.1

Host Mouse Isotype IgG1

Reactivity Human, Mouse, Rat

Clonality Monoclonal

Description

Mouse Anti-Mouse Cav3.1 Monoclonal IgG1

Target/Specificity

Detects ~<200kDa. Does not cross-react with Cav3.2.

Other Names

CACNA1G Antibody, CaV T1 Antibody, Cav3 1 Antibody, cav3 1c Antibody, KIAA1123 Antibody, MGC117234 Antibody, NBR13 Antibody, voltage gated calcium channel cav3.1 Antibody, calcium channel voltage dependent alpha 1G subunit Antibody, calcium channel voltage dependent T type alpha 1G subunit Antibody, calcium channel voltage dependent T type alpha1G subunit Antibody, voltage dependent calcium channel alpha 1G subunit isoform 11 Antibody, voltage dependent T type calcium channel subunit alpha 1G Antibody, Voltage gated calcium channel subunit alpha Cav3 1 Antibody

Immunogen

Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1

Purification

Protein G Purified

Storage -20°C

Storage Buffer

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

Shipping Temperature Blue Ice or 4°C

Certificate of Analysis

1 μ g/ml of SMC-405 was sufficient for detection of Cav3.1 in 20 μ g of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Membrane

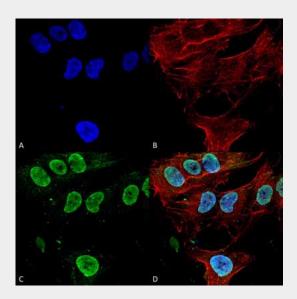
Cav3.1 Antibody - Protocols

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

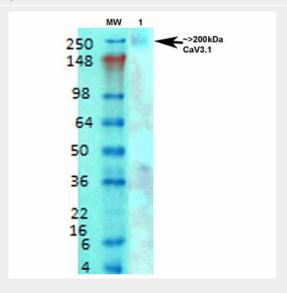


- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Cav3.1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 (ASM10239). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody (ASM10239) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cell Membrane, Membrane, Cytoplasm, Nucleoplasm. Magnification: 60X.



Western Blot analysis of Rat brain membrane lysate showing detection of Cav3.1 Calcium Channel protein using Mouse Anti-Cav3.1 Calcium Channel Monoclonal Antibody, Clone S178A-9



(ASM10239). Primary Antibody: Mouse Anti-Cav3.1 Calcium Channel Monoclonal Antibody (ASM10239) at 1:1000.

Cav3.1 Antibody - Background

Calcium channel CaV3.1 (a1G) is a low-voltage-activated T-type calcium channel. Such T-type channels are expressed throughout the body. In the heart, they may be involved in pacemaker current. In neurons, these channels may play a secondary pacemaker role (1). With the ubiquitous expression, it is not surprising that alterations in channel function have been implicated in disease. Drugs that act to block T-type calcium channels are used as anti-hypertensives, antiepileptic's, and blocking of T-type calcium channels may be involved in the action of some anesthetics and antipsychotics as well (1). Much remains to be determined about the precise cellular localization, in vivo physiological roles, roles in disease states and possible routes to modulate their structure/function to ameliorate effects of disease.

Cav3.1 Antibody - References

1. Perez-Reyes E. (2003). Physiol. Rev., 83: 117-161.