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# Datasheet for ABIN2483306 anti-CACNA1G antibody (AA 2052-2172) (PE)

3 Images



#### Overview

| Quantity:            | 100 µg   |
|----------------------|--|
| Target:              | CACNA1G  |
| Binding Specificity: | AA 2052-2172   |
| Reactivity:          | Mouse  |
| Host:                | Mouse  |
| Clonality:           | Monoclonal   |
| Conjugate:           | This CACNA1G antibody is conjugated to PE  |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),<br>Immunocytochemistry (ICC) |

### Product Details

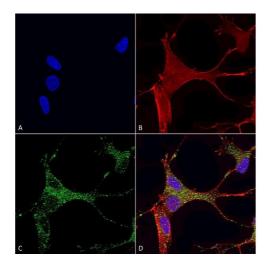
| Immunogen:        | Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1 |
|-------------------|---|
| Clone:            | S178A-9   |
| lsotype:          | lgG1  |
| Specificity:      | Detects ~<200 kDa. Does not cross-react with Cav3.2.                          |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Purification:     | Protein G Purified  |
| Target Details    |   |
| Target:           | CACNA1G   |

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| Target Details      |   |
|---------------------|---|
| Alternative Name:   | Cav3.1 (CACNA1G Products)   |
| 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 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. |
| Gene ID:            | 12291   |
| NCBI Accession:     | NP_001106284  |
| UniProt:            | Q9WUT2  |
| Application Details |   |
| Application Notes:  | <ul> <li>WB (1:1000)</li> <li>ICC/IF (1:100)</li> <li>optimal dilutions for assays should be determined by the user.</li> </ul>   |
| Comment:            | 1 μg/ml of ABIN2483306 was sufficient for detection of Cav3.1 in 20 μg of rat brain membrane<br>lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the<br>secondary antibody.  |
| Restrictions:       | For Research Use only   |
| Handling            |   |
| Format:             | Liquid  |
| Concentration:      | 1 mg/mL   |
| Buffer:             | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated   |
| Preservative:       | Sodium azide  |
| Precaution of Use:  | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.  |
| Storage:            | 4 °C  |
|                     |   |

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#### Images

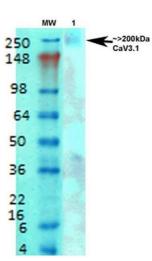


## Immunocytochemistry

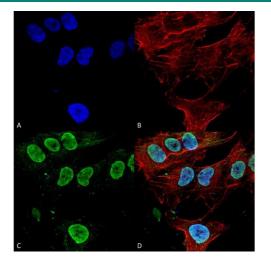
**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 (ABIN2483306). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody (ABIN2483306) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Cav3.1 Antibody (D) Composite.

#### Western Blotting

**Image 2.** 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 . Primary Antibody: Mouse Anti-Cav3.1 Calcium Channel Monoclonal Antibody at 1:1000.



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#### Immunofluorescence (fixed cells)

**Image 3.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 . 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 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.

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