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Datasheet for ABIN2483305 anti-CACNA1G antibody (AA 2052-2172) (PerCP)

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 PerCP |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

Product Details

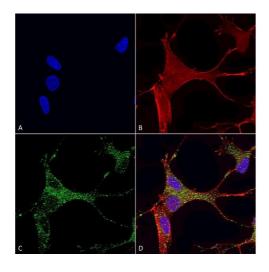
| Immunogen: | Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1 |
|-------------------|---|
| Clone: | S178A-9 |
| lsotype: | lgG1 |
| Specificity: | Detects ~<200 kDa. Does not cross-react with Cav3.2. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein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

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| Background: Calcium ch channels a current. In ubiquitous implicated hypertensi action of s about the p | ACNA1G Products) hannel CaV3.1 (a1G) is a low-voltage-activated T-type calcium channel. Such T-type are expressed throughout the body. In the heart, they may be involved in pacemaker neurons, these channels may play a secondary pacemaker role (1). With the expression, it is not surprising that alterations in channel function have been in disease. Drugs that act to block T-type calcium channels are used as anti- ves, antiepileptic's, and blocking of T-type calcium channels may be involved in the some anesthetics and antipsychotics as well (1). Much remains to be determined precise cellular localization, in vivo physiological roles, roles in disease states and butes to modulate their structure/function to ameliorate effects of disease. |
|---|--|
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| | |
| Gene ID: 12291 | |
| NCBI Accession: NP_00110 | 6284 |
| UniProt: Q9WUT2 | |
| Application Details | |
| Application Notes: • WB (1:10 • ICC/IF (• optimal | |
| | ABIN2483305 was sufficient for detection of Cav3.1 in 20 µg of rat brain membrane assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the antibody. |
| Restrictions: For Resear | rch Use only |
| Handling | |
| Format: Liquid | |
| Concentration: 1 mg/mL | |
| Buffer: PBS pH 7.4 | 4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated |
| Preservative: Sodium az | ide |
| | ict contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which handled by trained staff only. |
| Storage: 4 °C | |

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Images

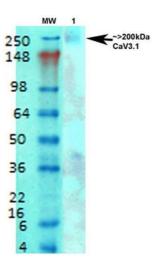


Immunocytochemistry

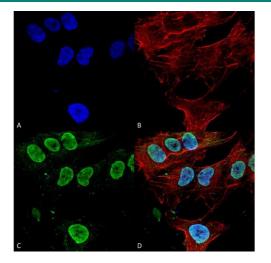
Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 (ABIN2483305). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody (ABIN2483305) at 1:50 for overnight 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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