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anti-CACNA1G antibody (AA 2052-2172) (FITC)

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 FITC |
| 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 |
| Isotype: | lgG1 |
| Specificity: | Detects ~<200 kDa. Does not cross-react with Cav3.2. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target Details

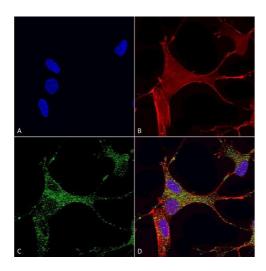
Target Details

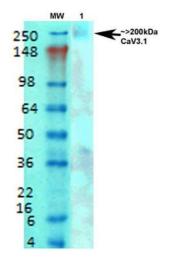
| Alternative Name: | Cav3.1 (CACNA1G Products) |
|---------------------|---|
| | |
| Background: | Calcium channel CaV3.1 (a1G) is a low-voltage-activated T-type calcium channel. Such T-type |
| | channels are expressed throughout the body. In the heart, they may be involved in pacemaker |
| | current. 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 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. |
| Gene ID: | 12291 |
| NCBI Accession: | NP_001106284 |
| UniProt: | Q9WUT2 |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | • ICC/IF (1:100) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | 1 μg/ml of ABIN2483302 was sufficient for detection of Cav3.1 in 20 μg of rat brain membrane |
| | lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the |
| | 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 |
| | |

Storage Comment:

Conjugated antibodies should be stored at 4°C

Images



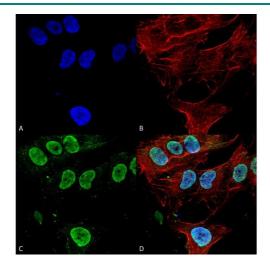


Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav3.1 Monoclonal Antibody, Clone S178A-9 (ABIN2483302). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Cav3.1 Monoclonal Antibody (ABIN2483302) 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.



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.