

Datasheet for ABIN2485658

anti-CACNA1C antibody (AA 1507-1733) (HRP)[Go to Product page](#)

7 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | CACNA1C |
| Binding Specificity: | AA 1507-1733 |
| Reactivity: | Rabbit |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CACNA1C antibody is conjugated to HRP |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Fusion protein amino acids 1507-1733 (intracellular carboxyl terminus) of rabbit Cav1.2 |
| Clone: | S57 |
| Isotype: | IgG1 |
| Specificity: | Detects ~240 kDa (varies with cell background due to glycosylation). |
| Cross-Reactivity: | Hamster, Human, Mouse, Rat |
| Purification: | Protein G Purified |

Target Details

| | |
|---------|---------|
| Target: | CACNA1C |
|---------|---------|

Target Details

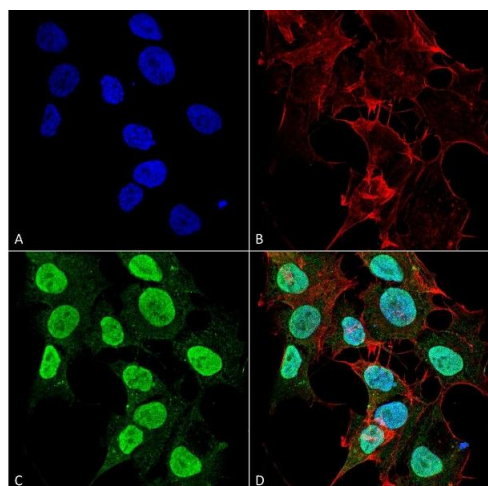
| | |
|-------------------|---|
| Alternative Name: | Cav1.2 (CACNA1C Products) |
| Background: | Cav1.2 is a cardiac L-type calcium channel, and is important for excitation and contraction of the heart (1). It may be associated with a variant of Long QT syndrome called Timothy's syndrome (2, 3) and also with Brugada syndrome. Some references also suggest it is related to bipolar disease as well (3). |
| Gene ID: | 100101555 |
| NCBI Accession: | NP_001129994 |
| UniProt: | P15381 |
| Pathways: | Hormone Transport , Carbohydrate Homeostasis |

Application Details

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|--------------------|---|
| Application Notes: | <ul style="list-style-type: none">• WB (1:1000)• IHC (1:1000)• ICC/IF (1:100)• IP (1:200)• optimal dilutions for assays should be determined by the user. |
| Comment: | 1 µg/ml of ABIN2485658 was sufficient for detection of Cav1.2 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |
| Restrictions: | For Research Use only |

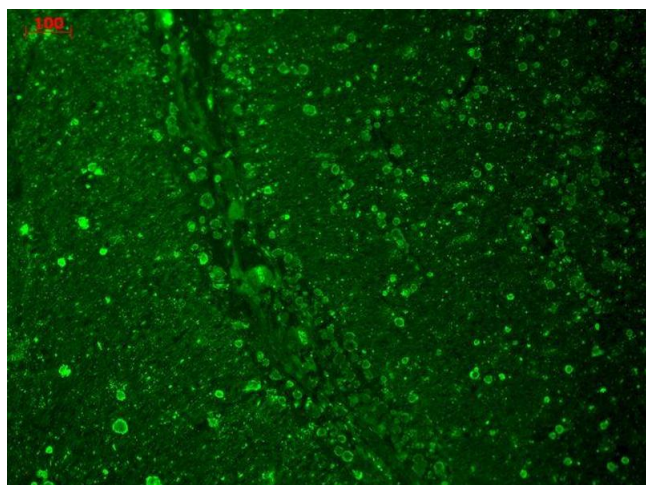
Handling

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|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.1 % 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 |



Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav1.2 Monoclonal Antibody, Clone S57 (ABIN2485658). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Cav1.2 Monoclonal Antibody (ABIN2485658) 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. (A) Phalloidin Texas Red F-Actin stain, DAPI (blue) nuclear stain. (B) Anti-Cav1.2 Antibody. (C) Composite. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Cav1.2 Antibody. (D) Composite.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-Cav1.2 Calcium Channel Monoclonal Antibody, Clone S57-46. Tissue: hippocampus. Species: Human. Fixation: 10% formalin. Primary Antibody: Mouse Anti-Cav1.2 Calcium Channel Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blotting

Image 3. Western Blot analysis of Hamster T-CHO cell lysate showing detection of CaV1.2 Calcium Channel protein using Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody, Clone S57-46 . Primary Antibody: Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody at 1:1000.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN2485658.