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Datasheet for ABIN6258628

anti-CACNA1H antibody (Internal Region)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | CACNA1H |
| Binding Specificity: | Internal Region |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CACNA1H antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC) |

Product Details

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|-----------------------|---|
| Immunogen: | A synthesized peptide derived from human CACNA1H, corresponding to a region within the internal amino acids. |
| Isotype: | IgG |
| Specificity: | CACNA1H Antibody detects endogenous levels of total CACNA1H. |
| Predicted Reactivity: | Pig,Bovine,Horse,Dog |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

Target Details

| | |
|---------|---------|
| Target: | CACNA1H |
|---------|---------|

Target Details

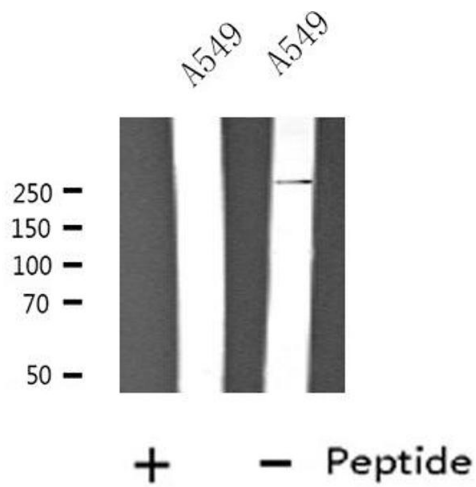
| | |
|-------------------|--|
| Alternative Name: | CACNA1H (CACNA1H Products) |
| Background: | <p>Description: Voltage-sensitive calcium channel that gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group. A particularity of this type of channel is an opening at quite negative potentials, and a voltage-dependent inactivation (PubMed:9670923, PubMed:9930755, PubMed:27149520). T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle (Probable). They may also be involved in the modulation of firing patterns of neurons (PubMed:15048902). In the adrenal zona glomerulosa, participates in the signaling pathway leading to aldosterone production in response to either AGT/angiotensin II, or hyperkalemia (PubMed:25907736, PubMed:27729216).</p> <p>Gene: CACNA1H</p> |
| Molecular Weight: | 259 kDa |
| Gene ID: | 8912 |
| UniProt: | O95180 |
| Pathways: | C21-Steroid Hormone Metabolic Process |

Application Details

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|--------------------|---|
| Application Notes: | WB 1:500-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000 |
| Restrictions: | For Research Use only |

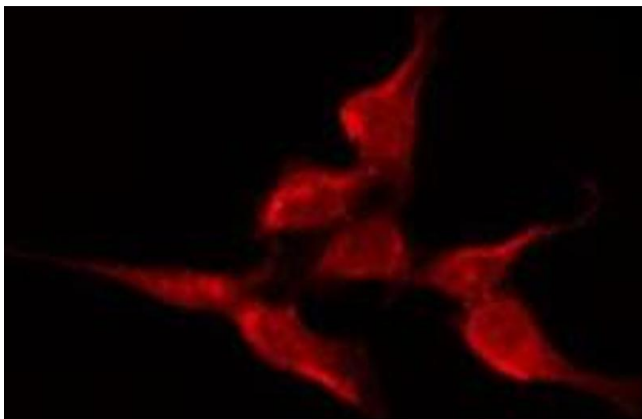
Handling

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|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| 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: | -20 °C |
| Storage Comment: | Store at -20 °C. Stable for 12 months from date of receipt. |



Western Blotting

Image 1. Western blot analysis of extracts from A549 cells, using CACNA1H antibody.



Immunofluorescence (fixed cells)

Image 2. ABIN6275679 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.