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Datasheet for ABIN886089

**anti-CACNA1A antibody (AA 1401-1500) (Alexa Fluor 555)**

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | CACNA1A   |
| Binding Specificity: | AA 1401-1500  |
| Reactivity:          | Rat   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This CACNA1A antibody is conjugated to Alexa Fluor 555  |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | KLH conjugated synthetic peptide derived from human CACNA1A |
| Isotype:              | IgG   |
| Cross-Reactivity:     | Rat   |
| Predicted Reactivity: | Human, Mouse, Cow, Pig, Rabbit                              |
| Purification:         | Purified by Protein A.                                      |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | CACNA1A   |
| Alternative Name: | CACNA1A/Cav2.1 ( <a href="#">CACNA1A Products</a> ) |

## Target Details

|             |  |
|-------------|--|
| Background: | <p>Synonyms: APCA, BI, Brain calcium channel 1, Brain calcium channel I, Cach4, Cacn3, Cacna1a, Cacn1a4, Calcium channel alpha 1A subunit, Calcium channel L type alpha 1 polypeptide, Calcium channel L type alpha-1 polypeptide isoform 4, Calcium channel voltage dependent, P/Q type alpha 1A subunit, CAV2.1, EA2, FHM, HPCA, MHP, MHP1, RAT brain class A, RBA-I, SCA6, Voltage-dependent P/Q-type calcium channel alpha-1A subunit, Voltage-gated calcium channel alpha subunit Cav2.1, CAC1A_HUMAN.</p> <p>Background: Cav2.1 is a voltage-sensitive calcium channels (VSCC) which belongs to the calcium channel alpha-1 subunit family. Cav2.1 mediates the entry of calcium ions into excitable cells and is also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. Cav2.1 (isoform alpha-1A) gives rise to P and/or Q-type calcium currents. Voltage-dependent calcium channels are multisubunit complexes, consisting of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The channel activity is directed by the pore-forming and voltage-sensitive alpha-1 subunit. In many cases, this subunit is sufficient to generate voltage-sensitive calcium channel activity. The auxiliary subunits beta and alpha-2/delta linked by a disulfide bridge regulate the channel activity.</p> |
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| Gene ID: | 773 |
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|           |  |
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| Pathways: | <a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a> |
|-----------|--|

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
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|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                    |   |
|--------------------|---|
| Format:            | Liquid  |
| Concentration:     | 1 µg/µL   |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative:      | ProClin   |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be                         |

Handling

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|                  |   |
|------------------|---|
|                  | handled by trained staff only.  |
| Storage:         | -20 °C  |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date:     | 12 months   |