

[Go to Product page](#)

Datasheet for ABIN1405476

**anti-CACNA1S antibody (AA 951-1001) (Alexa Fluor 647)**

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | CACNA1S   |
| Binding Specificity: | AA 951-1001   |
| Reactivity:          | Human, Mouse, Rat   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This CACNA1S antibody is conjugated to Alexa Fluor 647  |
| Application:         | Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | KLH conjugated synthetic peptide derived from human CACNA1S |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Purification:     | Purified by Protein A.                                      |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | CACNA1S   |
| Alternative Name: | CACNA1S ( <a href="#">CACNA1S Products</a> )  |
| Background:       | Synonyms: Voltage-dependent L-type calcium channel subunit alpha-1S, Calcium channel, L |

## Target Details

type, alpha-1 polypeptide, isoform 3, skeletal muscle, Voltage-gated calcium channel subunit alpha Cav1.1, CACNA1S, CACH1, CACN1, CACNL1A3

Background: Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are 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. The isoform alpha-1S gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIa (omega-Aga-IIIa). They are however insensitive to omega-conotoxin-GVIA (omega-CTx-GVIA) and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels containing the alpha-1S subunit play an important role in excitation-contraction coupling in skeletal muscle.

|           |   |
|-----------|---|
| Gene ID:  | 779   |
| UniProt:  | <a href="#">Q13698</a>                            |
| Pathways: | <a href="#">Skeletal Muscle Fiber Development</a> |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(ICC) 1:50-200 |
| 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 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  |