# ARG43539
# anti-CASQ1 / Calsequestrin 1 antibody

Package: 100 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes CASQ1 / Calsequestrin 1. |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | FACS, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CASQ1 / Calsequestrin 1 |
| Species | Human |
| Immunogen | Synthetic peptide derived from human CASQ1 / Calsequestrin 1 |
| Conjugation | Un-conjugated |
| Alternate Names | CASQ; PDIB1; VMCQA |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| FACS | 1:50 - 1:100 |
| IHC-P | 1:50 - 1:200 |
| WB | 1:500 - 1:2000 |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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|---|---|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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|---|---|
| Gene Symbol | CASQ1 |
| Gene Full Name | calsequestrin 1 (fast-twitch, skeletal muscle) |
| Background | This gene encodes the skeletal muscle specific member of the calsequestrin protein family. Calsequestrin functions as a luminal sarcoplasmic reticulum calcium sensor in both cardiac and skeletal muscle cells. This protein, also known as calmitine, functions as a calcium regulator in the mitochondria of skeletal muscle. This protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq, Jun 2013] |
| Function | Calsequestrin is a high-capacity, moderate affinity, calcium-binding protein and thus acts as an internal calcium store in muscle. Calcium ions are bound by clusters of acidic residues at the protein surface, often at the interface between subunits. Can bind around 80 Ca(2+) ions. Regulates the release of lumenal Ca(2+) via the calcium release channel RYR1; this plays an important role in triggering muscle contraction. [UniProt] |