

## Calsequestrin 1 Conjugated Antibody

Catalog No: #C49821



Package Size: #C49821-AF350 100ul #C49821-AF405 100ul #C49821-AF488 100ul  
 #C49821-AF555 100ul #C49821-AF594 100ul #C49821-AF647 100ul  
 #C49821-AF680 100ul #C49821-AF750 100ul #C49821-Biotin 100ul

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## Description

|                       |   |
|-----------------------|---|
| Product Name          | Calsequestrin 1 Conjugated Antibody   |
| Host Species          | Rabbit  |
| Clonality             | Monoclonal  |
| Species Reactivity    | Hu, Ms, Rt  |
| Immunogen Description | Recombinant protein   |
| Conjugates            | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750  |
| Other Names           | Calmitin antibody Calmitine antibody Calsequestrin 1 (fast twitch, skeletal muscle) antibody Calsequestrin antibody Calsequestrin, cell antibody Calsequestrin, skeletal muscle isoform antibody Calsequestrin-1 antibody CASQ antibody Casq1 antibody CASQ1_HUMAN antibody PDIB1 antibody skeletal muscle isoform antibody |
| Accession No.         | Swiss-Prot#:P31415  |
| Uniprot               | P31415  |
| GeneID                | 844;  |
| Excitation Emission   | AF350: 346nm/442nm<br>AF405: 401nm/421nm<br>AF488: 493nm/519nm<br>AF555: 555nm/565nm<br>AF594: 591nm/614nm<br>AF647: 651nm/667nm<br>AF680: 679nm/702nm<br>AF750: 749nm/775nm  |
| Calculated MW         | 45 kDa  |
| Formulation           | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide   |
| Storage               | Store at 4°C in dark for 6 months   |

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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Calsequestrin (CS, also known as CSQ) is the major calcium-binding protein of cardiac and skeletal muscle whose function is to sequester calcium in the lumen of the sarcoplasmic reticulum (SR). In mammals, there are two forms of this protein, calsequestrin 1 and calsequestrin 2, which encode fast-twitch skeletal muscle and cardiac calsequestrin, respectively. Calsequestrin 1, also known as Calmitin, is located in the terminal cisternae luminal spaces of the SR of fast skeletal muscle cells. Calsequestrin 2 is present in terminal cisternae luminal spaces of the SR of both cardiac and slow skeletal muscle cells. In addition, calsequestrin regulates the ryanodine receptor signaling (RyR) through Triadin and Junctin.

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Note: This product is for in vitro research use only