

For Research Use Only

# CoraLite® Plus 488-conjugated CASQ2 Recombinant antibody

Catalog Number: CL488-84056-6



## Basic Information

<b>Catalog Number:</b> CL488-84056-6	<b>GenBank Accession Number:</b> BC022288	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 845	<b>CloneNo.:</b> 241211A3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O14958	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> calsequestrin 2 (cardiac muscle)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG33584	<b>Calculated MW:</b> 46 kDa	
	<b>Observed MW:</b> 46-55 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : C2C12 cells,
<b>Species Specificity:</b> human, mouse, rat, pig	

## Background Information

Calsequestrin (CASQ) is a Ca<sup>2+</sup>-binding protein present primarily in junctional sarcoplasmic reticulum of skeletal and cardiac muscle; the cardiac form (CASQ2) is encoded by a separate gene. The primary role of CASQ2 is buffering of the sarcoplasmic reticulum Ca<sup>2+</sup> ions, but another role for CASQ2 has emerged recently: CASQ2 regulates the open probability of ryanodine receptor 2 (RyR2). Mutations in CASQ2 cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest.

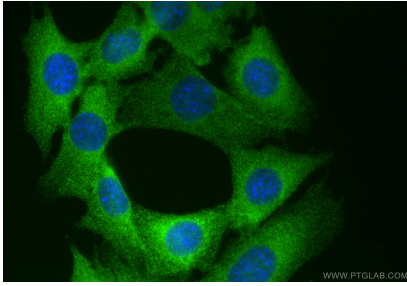
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

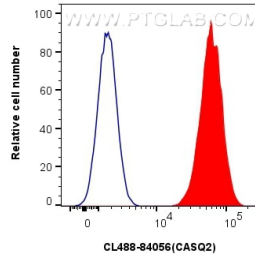
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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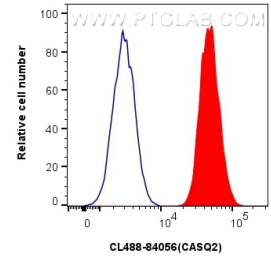
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Coralite® Plus 488 CASQ2 antibody (CL488-84056-6, Clone: 241211A3) at dilution of 1:200.



1x10<sup>6</sup> U2OS cells were intracellularly stained with 0.25 ug Coralite® Plus 488 Casq2 Recombinant Antibody (CL488-84056-6, Clone:241211A3)(red), or 0.25 ug Coralite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug Coralite® Plus 488 Casq2 Recombinant Antibody (CL488-84056-6, Clone:241211A3)(red), or 0.25 ug Coralite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).