For Research Use Only

## CASQ2 Recombinant antibody

Catalog Number:84056-6-RR

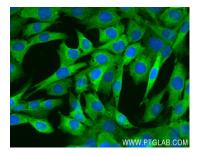


Basic Information	Catalog Number: 84056-6-RR	GenBank Accession Number: BC022288	Purification Method: Protein A purfication	
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG33584	GeneID (NCBI): 845 UNIPROT ID: 014958 Full Name: calsequestrin 2 (cardiac muscle) Calculated MW: 46 kDa Observed MW: 46-55 kDa	CloneNo.: 241211A3 Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500	
Applications	Tested Applications: WB, IF/ICC, FC (Intra), ELISA Species Specificity: human, mouse, rat, pig	WB : huma tissue, pig	Positive Controls: WB : human heart tissue, mouse heart tissue, rat heart tissue, pig heart tissue IF/ICC : C2C12 cells,	
Background Information	Calsequestrin (CASQ) is a Ca2+-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 Ca2+ 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.			
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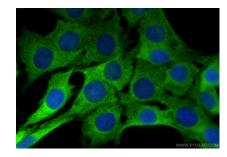
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

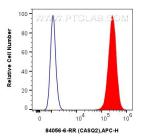
## Selected Validation Data



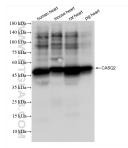
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CASQ2 antibody (84056-6-RR, Clone: 241211A3) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CASQ2 antibody (84056-6-RR, Clone: 241211A3) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 U2OS cells were intracellularly stained with 0.25 ug CASQ2 Recombinant antibody (84056-6-RR, Clone:241211A3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 84056-6-RR (CASQ2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.