

For Research Use Only

CASQ2 Recombinant antibody, PBS Only

Catalog Number: 84056-6-PBS



Basic Information

Catalog Number:	84056-6-PBS	GenBank Accession Number:	BC022288	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	845	CloneNo.:	241211A3
Source:	Rabbit	UNIPROT ID:	O14958		
Isotype:	IgG	Full Name:	calsequestrin 2 (cardiac muscle)		
Immunogen Catalog Number:	AG33584	Calculated MW:	46 kDa		
		Observed MW:	46-55 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat, pig

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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

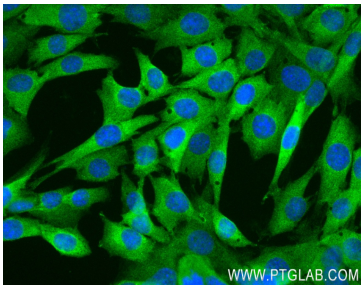
T: 4006900926

E: Proteintech-CN@ptglab.com

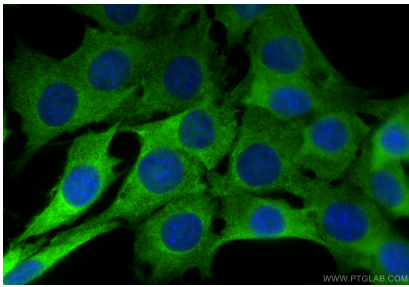
W: ptgcn.com

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

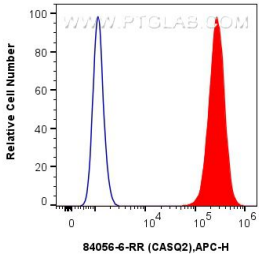
Selected Validation Data



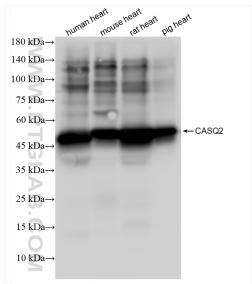
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CASQ2 antibody (84056-6-RR, Clone: 241211A3) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



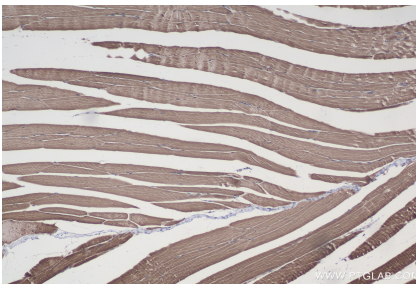
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CASQ2 antibody (84056-6-RR, Clone: 241211A3) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



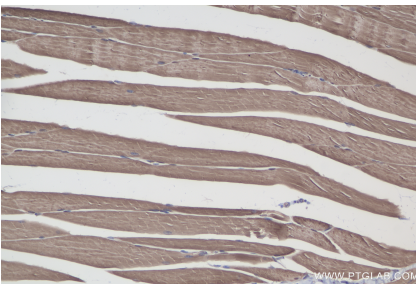
1x10⁶ U2OS cells were intracellularly stained with 0.25 ug CASQ2 Recombinant antibody (84056-6-RR, Clone:241211A3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



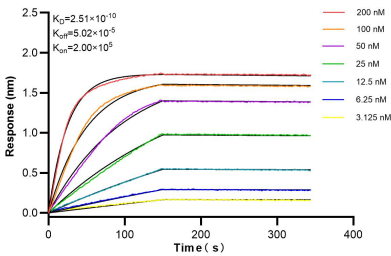
Various lysates were subjected to SDS PAGE followed by western blot with 84056-6-RR (CASQ2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 84056-6-RR (CASQ2 antibody) at dilution of 1:0 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 84056-6-RR (CASQ2 antibody) at dilution of 1:0 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84056-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84056-6-RR against Human CASQ2 were performed. The affinity constant is 0.251 nM.