

Calsequestrin Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Dog, Human, Mouse, Sheep, Rat
Published Species	Dog, Rabbit, Rat, Sheep, Zebrafish, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Purified canine cardiac calsequestrin.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum, PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2071461

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	128 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:500	1 Publication
Immunocytochemistry (ICC/IF)	Assay-dependent	3 Publications
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

PA1-913 detects calsequestrin from canine, human, mouse, rat and sheep tissues. This antibody recognizes both cardiac and skeletal muscle calsequestrin.

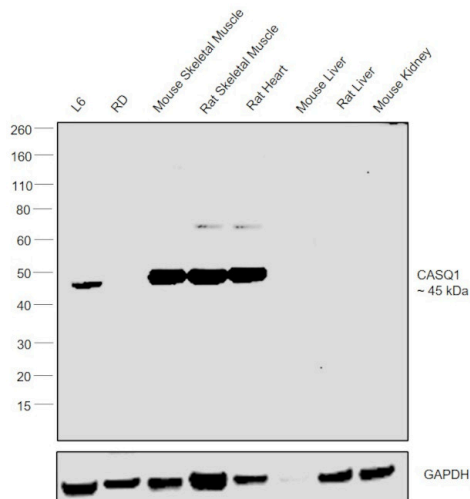
PA1-913 has been successfully used in Western blot, immunofluorescence, immunocytochemistry, immunohistochemistry (paraffin) and immunoprecipitation procedures. By Western blot, this antibody detects an ~55 kDa protein representing calsequestrin from canine cardiac extract. Additional bands at 97 kDa may be observed and have been reported to be calsequestrin-like proteins.

PA1-913 antigen is purified canine cardiac calsequestrin.

Product Images For Calsequestrin Polyclonal Antibody

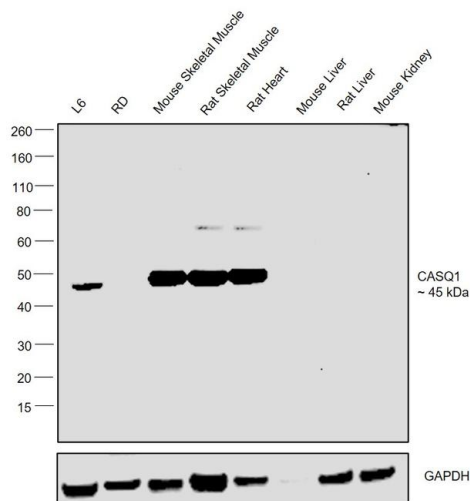
Calsequestrin Antibody (PA1-913)

Antibody specificity was demonstrated by detection of differential basal expression of the target across Cell lines and tissues owing to their inherent genetic constitution. Relative expression of Calsequestrin-1 was observed as increased expression in L6, Mouse skeletal muscle, Rat Skeletal Muscle, Rat heart using Anti-Calsequestrin Polyclonal Antibody (Product # PA1-913) in Western Blot. {RE}



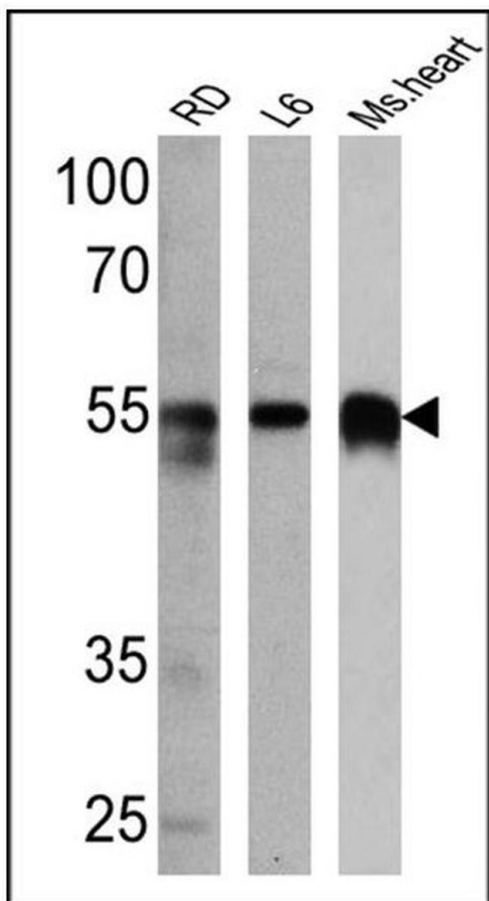
Calsequestrin Antibody (PA1-913) in WB

Western blot was performed using Anti-Calsequestrin Polyclonal Antibody (Product # PA1-913) and a 45 kDa band corresponding to Calsequestrin-1 was observed across tissues tested. Tissue extracts (30 µg lysate) of L6 (Lane 1), RD (Lane 2), Mouse Skeletal Muscle (Lane 3), Rat Skeletal Muscle (Lane 4), Rat Heart (Lane 5), Mouse Liver (Lane 6), Rat Liver (Lane 7), Mouse Kidney (Lane 8) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2002) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Calsequestrin Antibody (PA1-913) in WB

Western blot analysis of Calsequestrin was performed by loading 25 µg of RD (Lane 1), L6 (Lane 2) and mouse heart (Lane 3) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a Calsequestrin polyclonal antibody (Product # PA1-913) at a dilution of 1:5000 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at approx. 55 kDa.



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140 References

Western Blot (128)

Frontiers in physiology	Year 2023
Phosphorylation at Serines 157 and 161 Is Necessary for Preserving Cardiac Expression Level and Functions of Sarcomeric Z-Disc Protein Telethonin.	Species Mouse
"PA1-913 was used in Western Blot to reveal that telethonin protein turnover in vivo is regulated in a novel phosphorylation-dependent manner and suggest that C-terminal phosphorylation may protect telethonin against proteasomal degradation and preserve cardiac function during hemodynamic stress."	Dilution 1:1000
Authors: Lewis HR,Eminaga S,Gautel M,Avkiran M	
The Journal of physiology	Year 2022
Inducible deletion of raptor and mTOR from adult skeletal muscle impairs muscle contractility and relaxation.	Species Mouse
"PA1-913 was used in Western Blotting to elucidate the functional role of mTOR in muscle contractility."	
Authors: Baraldo M,Zorzato S,Dondjang AHT,Jeremia A,Nogara L,Dumitras AG,Canato M,Marcucci L,Nolte H,Blaauw B	

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Immunohistochemistry (5)

Human molecular genetics	Year 2018
Conditional ablation and conditional rescue models for Casq2 elucidate the role of development and of cell-type specific expression of Casq2 in the CPVT2 phenotype.	Species Mouse
"PA1-913 was used in Immunohistochemistry to generate and characterise novel conditional deletion and conditional rescue mouse models to test the influence of developmental programs on the heart rate and stress-induced polymorphic ventricular tachycardia phenotypes."	
Authors: Flores DJ,Duong T,Brandenberger LO,Mitra A,Shirali A,Johnson JC,Springer D,Noguchi A,Yu ZX,Ebert SN,Ludwig A,Knollmann BC,Levin MD,Pfeifer K	
Nature communications	Year 2017
A chemical chaperone improves muscle function in mice with a RyR1 mutation.	Species Mouse
"Published figure using Calsequestrin polyclonal antibody (Product # PA1-913) in Immunofluorescence"	Dilution 1:1000
Authors: Lee CS,Hanna AD,Wang H,Dagnino-Acosta A,Joshi AD,Knoblauch M,Xia Y,Georgiou DK,Xu J,Long C,Amano H,Reynolds C,Dong K,Martin JC,Lagor WR,Rodney GG,Sahin E,Sewry C,Hamilton SL	

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More applications with references on thermofisher.com

- IHC (P) (1)
- ICC/IF (3)
- IP (1)
- Misc (2)

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