

Product Datasheet

Calsequestrin 1 Antibody (VIIID12) **NB120-2824**

Unit Size: 100uL

Store at -20C. Avoid freeze-thaw cycles.

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NB120-2824

Calsequestrin 1 Antibody (VIIID12)

Product Information

Unit Size	100uL
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	VIIID12
Preservative	0.05% Sodium Azide
Isotype	IgG2b
Purity	Unpurified
Buffer	Ascites diluted with PBS

Product Description

Host	Mouse
Gene ID	844
Gene Symbol	CASQ1
Species	Human, Mouse, Rat, Porcine, Canine, Chicken, Rabbit
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 15684334). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	This recognizes calsequestrin in both type I (slow) and type II (fast) skeletal muscle tissues.
Immunogen	Purified rabbit skeletal muscle sarcoplasmic reticulum.

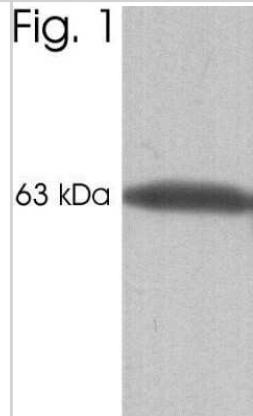
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:20, Immunocytochemistry/ Immunofluorescence 1:50 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20
Application Notes	WB: Detects an approx. 63 kDa protein representing calsequestrin from canine skeletal muscle extracts. Higher molecular weight proteins are seen on the WB and are believed to be calsequestrin-like proteins found in the sarcoplasmic reticulum.

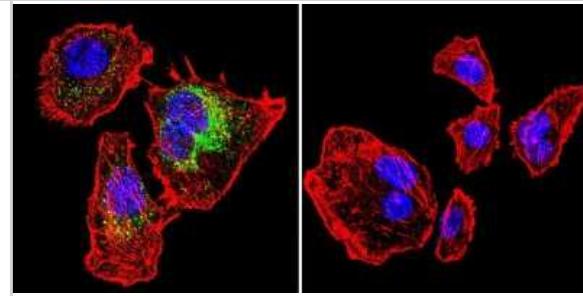
Images

Western Blot: Calsequestrin 1 Antibody (VIIID12) [NB120-2824] - Analysis of canine skeletal muscle extract.

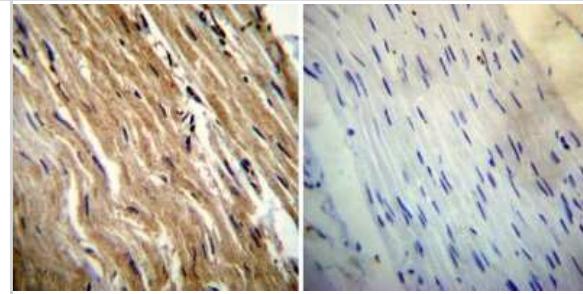
Fig. 1



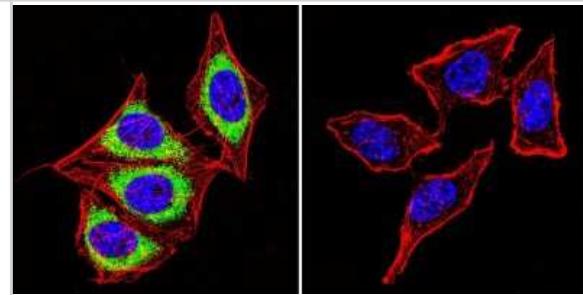
Immunocytochemistry/Immunofluorescence: Calsequestrin 1 Antibody (VIIID12) [NB120-2824] - Calsequestrin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Calsequestrin at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



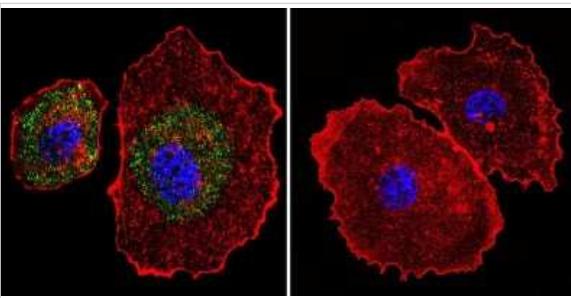
Immunohistochemistry-Paraffin: Calsequestrin 1 Antibody (VIIID12) [NB120-2824] - Both normal and cancer biopsies of deparaffinized Human heart tissue tissues.



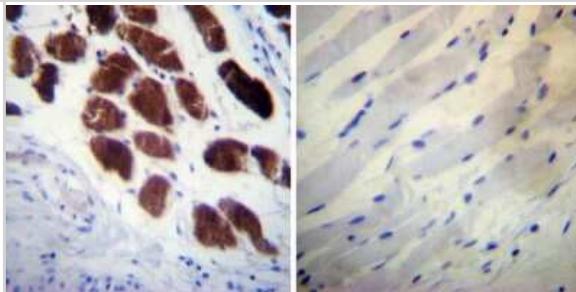
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Immunohistochemistry-Paraffin: Calsequestrin 1 Antibody (VIIID12) [NB120-2824] - Both normal and cancer biopsies of deparaffinized Human skeletal muscle tissues.



Publications

Leatherbury L, Yu Q, Chatterjee B et al. A novel mouse model of X-linked cardiac hypertrophy. *Am J Physiol Heart Circ Physiol* 2008-04-18 [PMID: 18424640]

Nissinen M, Kaisto T, Salmela P, Peltonen J, Metsikko K. Restricted distribution of mRNAs encoding a sarcoplasmic reticulum or transverse tubule protein in skeletal myofibers. *J Histochem Cytochem*;53(2):217-27. 2005-02-01 [PMID: 15684334]

Semsarian C, Ahmad I, Giewat M, Georgakopoulos D, Schmitt JP, McConnell BK, Reiken S, Mende U, Marks AR, Kass DA, Seidman CE, Seidman JG. The L-type calcium channel inhibitor diltiazem prevents cardiomyopathy in a mouse model. *J Clin Invest*;109(8):1013-20. 2002-04-01 [PMID: 11956238]

Phimister AJ, Lango J, Lee EH, Ernst-Russell MA, Takeshima H, Ma J, Allen PD, Pessah IN. Conformation-dependent stability of junctophilin 1 (JP1) and ryanodine receptor type 1 (RyR1) channel complex is mediated by their hyper-reactive thiols. *J Biol Chem*. 282(12):8667-77. 2007-03-23 [PMID: 17237236]



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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