

# Product Datasheet

## **Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) - Azide and BSA Free NBP2-47819-0.1mg**

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47819-0.1mg**

Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CALD1/820 + h-CALD
Preservative	No Preservative
Isotype	IgG1 Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	150 kDa

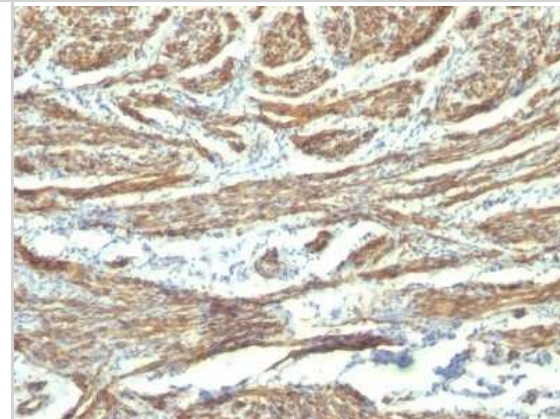
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44424).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	800
Gene Symbol	CALD1
Species	Human
Marker	Smooth Muscle Marker
Specificity/Sensitivity	Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. Two closely related variants of human caldesmon have been identified which are different in their electrophoretic mobility and cellular distribution. The h-caldesmon variant (120'150kDa) is predominantly expressed in smooth muscle whereas l-caldesmon (70'80kDa) is found in non- muscle tissue and cells. Neither of the two variants has been detected in skeletal muscle. This monoclonal antibody recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin. Caldesmon is a developmentally regulated protein involved in smooth muscle and non-muscle contraction.
Immunogen	Recombinant full-length human Caldesmon/CALD1 protein (Caldesmon/CALD1/820); Crude human uterus extract (h-CALD) (Uniprot: Q05682)

Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin
Application Notes	Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.



## Images

Immunohistochemistry-Paraffin: Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) - Azide and BSA Free [NBP2-47819] - Human Uterus stained with Caldesmon Monoclonal Antibody (CALD1/820 + h-CALD).



## Publications

Shin, H;Thakore, A;Tada, Y;Pedroza, A;Ikeda, G;Chen, I;Chan, D;Jaatinen, K;Kawamura, M;Yang, P;Wu, J;Appel, E;Fischbein, M;Woo, Y;Shudo, Y; Naturally aligned cell delivery platform to augment post-infarction neovasculature and ventricular remodeling Research Square (FLOW)



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### **Products Related to NBP2-47819-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
H00000800-P01-10ug	Recombinant Human Caldesmon/CALD1 GST (N-Term) Protein
NBP2-74969	Human Caldesmon/CALD1 ELISA Kit (Colorimetric)

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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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