

Product Datasheet

Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free NBP2-47816-0.1mg

Unit Size: 0.1 mg

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

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NBP2-47816-0.1mg

Caldesmon/CALD1 Antibody (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	h-CALD
Preservative	No Preservative
Isotype	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 (NBP2-44421). 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 (12080kDa) 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	Crude human uterus extract

Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Western Blot 2-4 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25 - 0.5 ug/ml, Immunofluorescence 1 - 2 ug/ml, CyTOF-ready



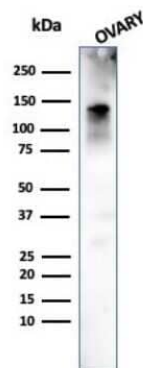
Application Notes

Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See [Simple Western Antibody Database](#) for Simple Western validation: antibody dilution of 10 ug/mL

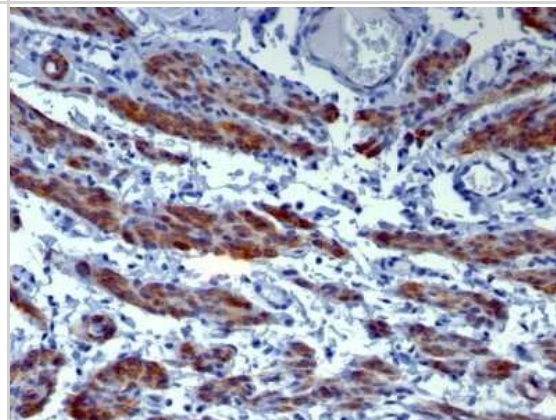


Images

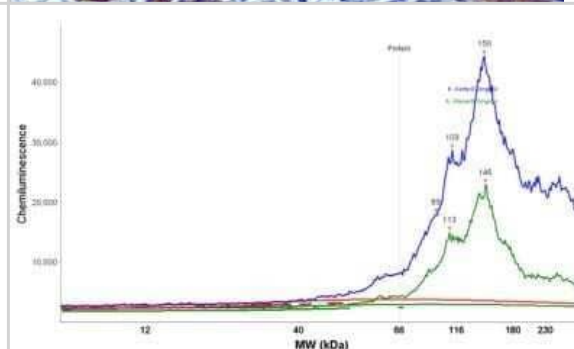
Western Blot: Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free [NBP2-47816] - Western Blot Analysis of human Ovary tissue using Caldesmon/CALD1 antibody (h-CALD).



Immunohistochemistry-Paraffin: Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free [NBP2-47816] - Human Uterus stained with Caldesmon Monoclonal Antibody (h-CALD).



Simple Western: Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free [NBP2-47816] - Electropherogram image of the corresponding Simple Western lane. Caldesmon/CALD1 antibody was used at 10 ug/ml dilution of h. Aorta and h. Uterus lysates(s) respectively.



Simple Western: Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free [NBP2-47816] - Simple Western lane view shows a specific band for Caldesmon/CALD1 in 0.2 mg/ml of h. Aorta lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.





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Products Related to NBP2-47816-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00000800-P01-10ug	Recombinant Human Caldesmon/CALD1 GST (N-Term) Protein

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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