

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 |



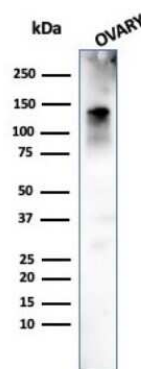
Application Notes

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

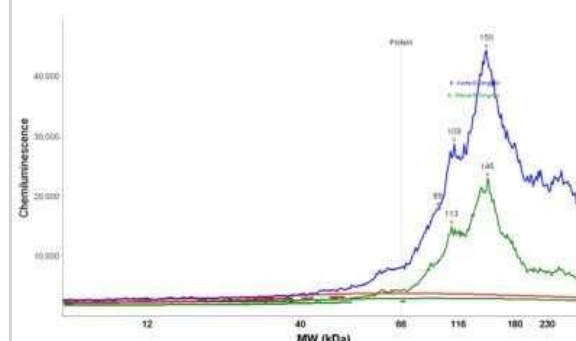
Western Blot: Caldesmon/CALD1 Antibody (h-CALD) - Azide and BSA Free [NBP2-47816] - Western Blot Analysis of human Ovary tissue using Caldesmon/CALD1 antibody (h-CALD).



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.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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