

# Product Datasheet

## Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) - IHC-Prediluted NBP2-48183

Unit Size: 7 ml

Store at 4C.

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**NBP2-48183**

Caldesmon/CALD1 Antibody (CALD1/820 + h-CALD) - IHC-Prediluted

**Product Information**

|                                |   |
|--------------------------------|---|
| <b>Unit Size</b>               | 7 ml  |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services. |
| <b>Storage</b>                 | Store at 4C.  |
| <b>Clonality</b>               | Monoclonal  |
| <b>Clone</b>                   | CALD1/820 + h-CALD  |
| <b>Preservative</b>            | 0.05% Sodium Azide  |
| <b>Isotype</b>                 | IgG1 Kappa/IgG1 Kappa   |
| <b>Purity</b>                  | Protein A or G purified   |
| <b>Buffer</b>                  | 10 mM PBS with 0.05% BSA  |
| <b>Target Molecular Weight</b> | 150 kDa   |

**Product Description**

|                                |  |
|--------------------------------|--|
| <b>Description</b>             | The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining.  |
| <b>Host</b>                    | Mouse  |
| <b>Gene ID</b>                 | 800  |
| <b>Gene Symbol</b>             | CALD1  |
| <b>Species</b>                 | Human  |
| <b>Marker</b>                  | Smooth Muscle Marker   |
| <b>Specificity/Sensitivity</b> | 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 I-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. |
| <b>Immunogen</b>               | Recombinant full-length human Caldesmon/CALD1 protein (Caldesmon/CALD1/820); Crude human uterus extract (h-CALD) (Uniprot: Q05682)   |

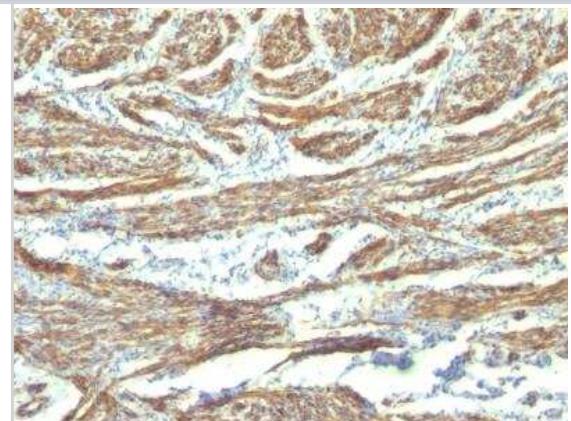
**Product Application Details**

|                              |   |
|------------------------------|---|
| <b>Applications</b>          | Immunohistochemistry, Immunohistochemistry-Paraffin   |
| <b>Recommended Dilutions</b> | Immunohistochemistry, Immunohistochemistry-Paraffin   |
| <b>Application Notes</b>     | 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) - IHC-Prediluted [NBP2-48183] - Formalin-fixed, paraffin-embedded human Uterus stained with Caldesmon Monoclonal Antibody (CALD1/820 + h-CALD).





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## Products Related to NBP2-48183

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

H00000800-T01

Caldesmon/CALD1 293T Cell Transient Overexpression Lysate

## 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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