

Datasheet for ABIN6940938
anti-Caldesmon antibody

3 Images

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Overview

Quantity:	100 µg
Target:	Caldesmon (CALD1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Caldesmon antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Crude human uterus extract
Clone:	H-CALD
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 150 kDa, 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 (120'150 kDa) is predominantly expressed in smooth muscle whereas l-caldesmon (70'80 kDa) is found in non- muscle tissue and cells. Neither of the two variants has been detected in skeletal muscle. This MAbs recognizes only the 150 kDa 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.

Product Details

Purification: Purified by Protein A/G

Target Details

Target: Caldesmon (CALD1)

Alternative Name: CALD1 ([CALD1 Products](#))

Molecular Weight: 150kDa

Gene ID: 800

UniProt: [Q05682](#)

Pathways: [Myometrial Relaxation and Contraction](#)

Application Details

Application Notes: Positive Control: Uterus, Blood vessels in all tissues, smooth muscle or leiomyosarcoma.
Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

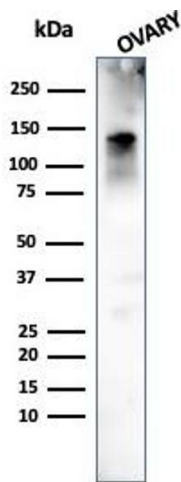
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

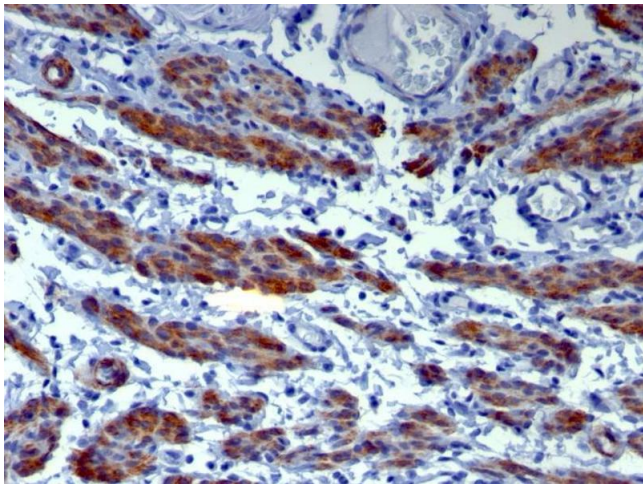
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



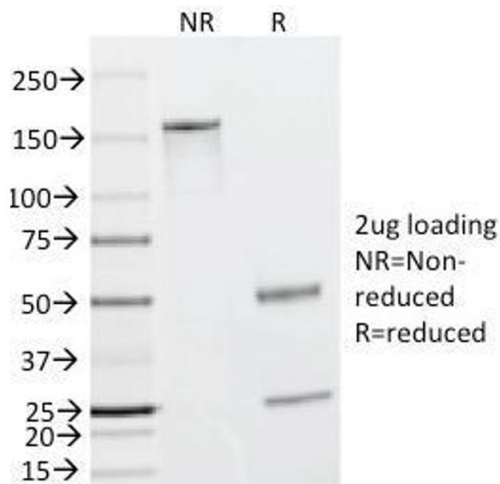
Western Blotting

Image 1. Western Blot Analysis of human Ovary tissue using Caldesmon Mouse Monoclonal Antibody (h-CALD).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Caldesmon Mouse Monoclonal Antibody (h-CALD).



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified Caldesmon Mouse Monoclonal Antibody (h-CALD). Confirmation of Integrity and Purity of Antibody.