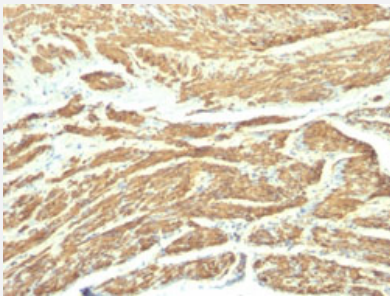


# Caldesmon, HMW monoclonal antibody, clone SPM168

Catalog # MAB13177      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human uterus with Caldesmon, HMW monoclonal antibody, clone SPM168 (Cat # MAB13177).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against native human Caldesmon, HMW.
<b>Immunogen</b>	Crude human uterus extract.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	150
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	Flow Cytometry (0.5-1 ug/10 <sup>6</sup> cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).

## Storage Instruction

Store at 4°C.

## Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human uterus with Caldesmon, HMW monoclonal antibody, clone SPM168 (Cat # MAB13177).

- Immunofluorescence

- Flow Cytometry

## Gene Info — CALD1

## Entrez GeneID

[800](#)

## Protein Accession#

[Q05682](#)

## Gene Name

CALD1

## Gene Alias

CDM, H-CAD, L-CAD, MGC21352, NAG22

## Gene Description

caldesmon 1

## Omim ID

[114213](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]

## Other Designations

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## Pathway

- [Vascular smooth muscle contraction](#)

## Disease

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)