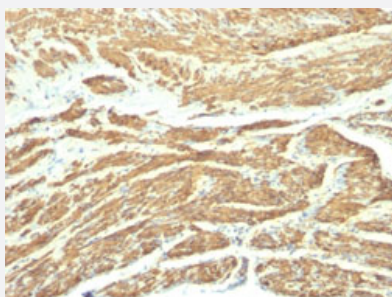


Caldesmon, HMW monoclonal antibody, clone SPM168

Catalog # MAB13178

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 # MAB13178).

Specification

Product Description Mouse monoclonal antibody raised against native human Caldesmon, HMW.

Immunogen Crude human uterus extract.

Host Mouse

Theoretical MW (kDa) 150

Reactivity Human

Form Liquid

Purification Protein A/G purification

Isotype IgG1, kappa

Recommend Usage
Flow Cytometry (0.5-1 ug/10⁶ 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.

Storage Buffer In 10 mM PBS.

Storage Instruction

Store at -20 to -80°C.
Aliquot to avoid repeated freezing and thawing.

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 # MAB13178).

- 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 -

Pathway

- [Vascular smooth muscle contraction](#)

Disease

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