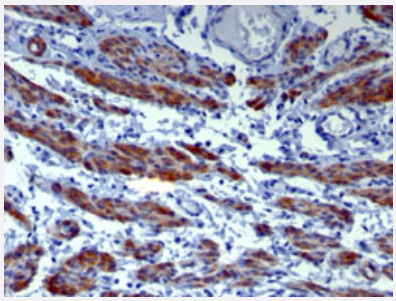
CALD1 monoclonal antibody, clone h-CALD

Catalog # MAB14417 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human uterus with CALD1 monoclonal antibody, clone h-CALD (Cat # MAB14417).

Specification

Product Description	Mouse monoclonal antibody raised against native human CALD1.
Immunogen	Crude human uterus extract.
Host	Mouse
Theoretical MW (kDa)	150
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/million 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 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 shoul d 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 CALD1 monoclonal antibody, clone h-CALD (Cat # MAB14417).

- 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 regul ation of smooth muscle and nonmuscle contraction. The conserved domain of this protein posses ses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. Th is protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves a s a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative spl icing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by Re fSeq
Other Designations	-

Publication Reference

- Phenotypic changes of human smooth muscle cells during development: late expression of heavy caldesmon and calponin.

  Frid MG, Shekhonin BV, Koteliansky VE, Glukhova MA.

  Developmental Biology 1992 Oct; 153(2):185.

  Application: IF, IP, HUman, Aorta

Pathway

- Vascular smooth muscle contraction

Disease

- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Tobacco Use Disorder