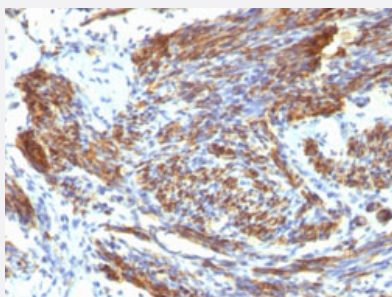


CALD1 monoclonal antibody, clone CALD1/820

Catalog # MAB14654 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 CALD1/820 (Cat # MAB14654).

Specification

| | |
|-----------------------------|--|
| Product Description | Mouse monoclonal antibody raised against full length recombinant human CALD1. |
| Immunogen | Recombinant protein corresponding to full length human CALD1. |
| 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. |

Storage Instruction

Store at -20°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 CALD1 monoclonal antibody, clone CALD1/820 (Cat # MAB14654).

- 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 -

Publication Reference

- [h-Caldesmon as a specific marker for smooth muscle tumors. Comparison with other smooth muscle markers in bone tumors.](#)

Watanabe K, Tajino T, Sekiguchi M, Suzuki T.

American Journal of Clinical Pathology 2000 May; 113(5):663.

Pathway

- [Vascular smooth muscle contraction](#)

Disease

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