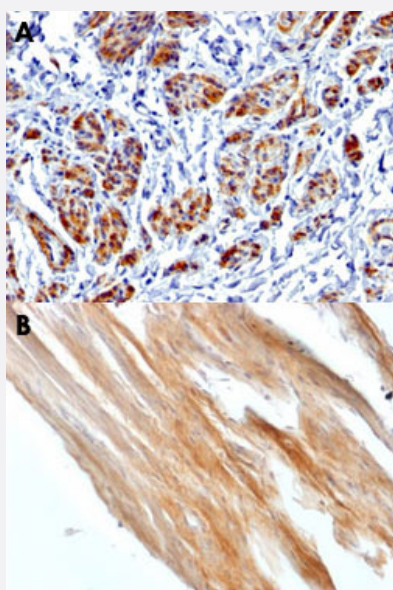


RecomAb™

Caldesmon, HMW recombinant monoclonal antibody, clone CALD1/1424R

Catalog # RAB00359 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human uterus (A) and rat uterus (B) with Caldesmon, HMW recombinant monoclonal antibody, clone CALD1/1424R (Cat # RAB00359).

Specification

| | |
|----------------------|--|
| Product Description | Rabbit recombinant monoclonal antibody raised against human Caldesmon, HMW. |
| Antibody Species | Rabbit |
| Immunogen | Original antibody is raised against recombinant protein corresponding to full length human Caldesmon, HMW. |
| Theoretical MW (kDa) | 150 |
| Reactivity | Human, Rat |
| Form | Liquid |

| | |
|---------------------|---|
| Purification | Protein A/G purification |
| Isotype | IgG, kappa |
| Recommend Usage | Flow Cytometry (0.5-1 ug/10 ⁶ cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user. |
| Storage Buffer | 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 (A) and rat uterus (B) with Caldesmon, HMW recombinant monoclonal antibody, clone CALD1/1424R (Cat # RAB00359).

- 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.

- [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.

Pathway

- [Vascular smooth muscle contraction](#)

Disease

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