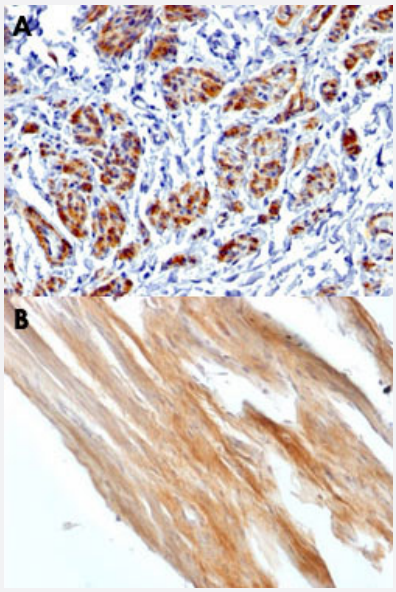
RecomAb™

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

Catalog # RAB00360 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 # RAB00360).

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

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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
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 (A) and rat uterus (B) with Caldesmon, HMW recombinant monoclonal antibody, clone CALD1/1424R (Cat # RAB00360).

- 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

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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

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