

Caldesmon monoclonal antibody, clone hHCD

Catalog # MAB1430

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length native human caldesmon.
Immunogen	Native purified caldesmon from human uterus smooth muscle.
Host	Mouse
Reactivity	Human, Mouse, Rabbit
Form	Liquid
Isotype	IgG1
Recommend Usage	Immunohistochemistry (2-4 ug/mL) Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (1.2% sodium acetate, 2 mg BSA, 0.01mg sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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

Gene Info — CALD1

Entrez GeneID

[800](#)

Protein Accession#	Q05682;Q8VCQ8;Q62736
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

- [Genomic structure of the human caldesmon gene.](#)

Hayashi K, Yano H, Hashida T, Takeuchi R, Takeda O, Asada K, Takahashi E, Kato I, Sobue K.
PNAS 1992 Dec; 89(24):12122.

Application: WB-Ce, WB-Tr, Human, Mammalian cells

- [Cloning of cDNAs encoding human caldesmons.](#)

Humphrey MB, Herrera-Sosa H, Gonzalez G, Lee R, Bryan J.
Gene 1992 Mar; 112(2):197.

Application: WB-Ce, WB-Tr, Human, Mammalian cells

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Diabetes Mellitus](#)

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