

Recombinant Human CALD1 cell lysate

Cat. No. CALD1-274HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	CALD1 caldesmon 1 [Homo sapiens]
Official Symbol	CALD1
Synonyms	CALD1; caldesmon 1; caldesmon; CDM; H CAD; L CAD; HCAD; LCAD; H-CAD; L-CAD; NAG22; MGC21352;

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Gene ID	800
mRNA Refseq	NM_033138
Protein Refseq	NP_149129
MIM	114213
UniProt ID	Q05682
Chromosome Location	7q33
Pathway	Muscle contraction, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Smooth Muscle Contraction, organism-specific biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
Function	actin binding; calmodulin binding; myosin binding; tropomyosin binding;

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