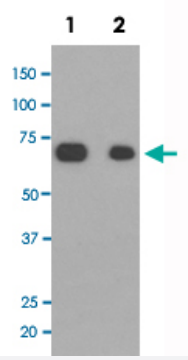
CALD1 monoclonal antibody, clone CHA-3

Catalog # MAB19685 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH3T3 and Lane 2: HeLa cell lysates with CALD1 monoclonal antibody, clone CHA-3 (Cat # MAB19685).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human CALD1.
Immunogen	A synthetic peptide corresponding to human CALD1.
Host	Rabbit
Theoretical MW (kDa)	93.231
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Flow Cytometry Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blot analysis of Lane 1: NIH3T3 and Lane 2: HeLa cell lysates with CALD1 monoclonal antibody, clone CHA-3 (Cat # MAB19685).

- Immunohistochemistry
- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation
- 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	-

Pathway

- Vascular smooth muscle contraction

Disease

- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Tobacco Use Disorder