

# Caldesmon Rabbit mAb

Catalog No.: A4884 **Recombinant**

## Basic Information

### Observed MW

80kDa

### Calculated MW

93kDa

### Category

Primary antibody

### Applications

ELISA, WB

### Cross-Reactivity

Human

### CloneNo number

ARC0315

## Background

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.

## Recommended Dilutions

WB 1:500 - 1:1000

## Immunogen Information

### Gene ID

800

### Swiss Prot

Q05682

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 694-793 of human Caldesmon (Q05682).

### Synonyms

CDM; HCAD; LCAD; h-CD; H-CAD; L-CAD; NAG22; Caldesmon

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

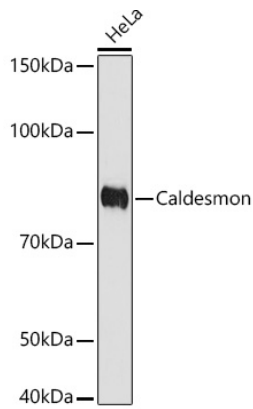
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of lysates from HeLa cells, using Caldesmon Rabbit mAb (A4884) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.