

# Caldesmon

Rabbit Monoclonal antibody(Mab)

Catalog # AD80175

## Product Information

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<b>Application</b>	IHC-P
<b>Primary Accession</b>	<a href="#">Q05682</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	423B7C1
<b>Calculated MW</b>	93231

## Additional Information

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<b>Gene ID</b>	800
<b>Gene Name</b>	CALD1
<b>Other Names</b>	Caldesmon, CDM, CALD1, CAD, CDM
<b>Dilution</b>	IHC-P~~Ready-to-use
<b>Storage</b>	Maintain refrigerated at 2-8°C.
<b>Precautions</b>	Caldesmon Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

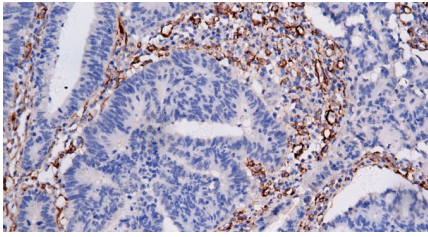
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<b>Name</b>	CALD1
<b>Synonyms</b>	CAD, CDM
<b>Function</b>	Actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells (could act as a bridge between myosin and actin filaments). Stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin. Interacts with actin, myosin, two molecules of tropomyosin and with calmodulin. Also plays an essential role during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration (By similarity).
<b>Cellular Location</b>	Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:P13505}. Cytoplasm, myofibril {ECO:0000250 UniProtKB:P13505}. Cytoplasm, cytoskeleton, stress fiber {ECO:0000250 UniProtKB:P13505}. Note=On thin filaments in smooth muscle and on stress fibers in fibroblasts (nonmuscle) {ECO:0000250 UniProtKB:P13505}
<b>Tissue Location</b>	High-molecular-weight caldesmon (isoform 1) is predominantly expressed in

smooth muscles, whereas low-molecular-weight caldesmon (isoforms 2, 3, 4 and 5) are widely distributed in non-muscle tissues and cells. Not expressed in skeletal muscle or heart

## Images

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.