

# Anti-Caldesmon Antibody

Mouse monoclonal antibody to Caldesmon

Catalog # AP61604

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">Q05682</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Calculated MW</b>	93231

## Additional Information

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<b>Gene ID</b>	800
<b>Other Names</b>	CAD; CDM; Caldesmon; CDM
<b>Target/Specificity</b>	Recognizes endogenous levels of Caldesmon protein.
<b>Dilution</b>	WB~~1:1000 IHC~~1:100~500
<b>Format</b>	Mouse IgG2b. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## 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}

**Tissue Location**

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

**Background**

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KLH-conjugated synthetic peptide encompassing a sequence within human Caldesmon. The exact sequence is proprietary.

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