10320 Camino Santa Fe, Suite G
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Caldesmon
Rabbit Monoclonal antibody(Mab)
Catalog # AD80175

Specification

Caldesmon - Product info

Application	**IHC-P**
Primary Accession	Q05682
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Monoclonal**
Calculated MW	**93231**

Caldesmon - Additional info

Gene ID	**800**
Gene Name	**CALD1**

Other Names
Caldesmon, CDM, CALD1, CAD, CDM

Dilution
IHC-P~~Ready-to-use

Storage
Maintain refrigerated at 2-8°C

Precautions	**Caldesmon Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

Caldesmon - Protein Information

Name CALD1

Synonyms	**CAD, CDM**
Function	**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 play an essential role**

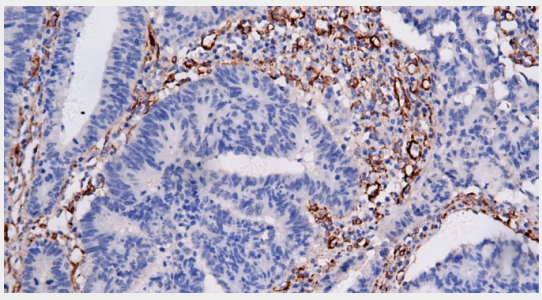
Cellular Location	**during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration (By similarity). Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P13505}. Cytoplasm, myofibril {ECO:0000250|UniProtKB:P13505}. Cytoplasm, cytoskeleton, stress fiber {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**

Caldesmon - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Caldesmon - Images



Colon cancer

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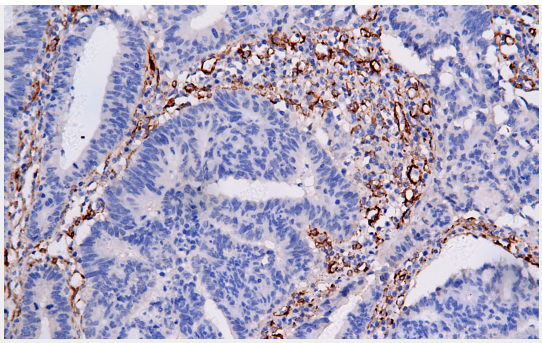

Immunohistochemical analysis of paraffin-embedded colorectal carcinoma; tissue using AD80175 performed on the Abcarta® FAIP-30 Fully automated IHC platform.Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems□Abcepta:AR005□ was used as the secondary antibody.