

Caldesmon (phospho Ser789) Polyclonal Antibody

Catalog # AP67806

Specification

Caldesmon (phospho Ser789) Polyclonal Antibody - Product Information

Application WB, IHC-P, IF Primary Accession O05682

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Caldesmon (phospho Ser789) Polyclonal Antibody - Additional Information

Gene ID 800

Other Names

CALD1; CAD; CDM; Caldesmon; CDM

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence:

1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

IHC-P~~N/A IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Caldesmon (phospho Ser789) Polyclonal Antibody - 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 plays an essential role during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration (By similarity).

Cellular Location

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

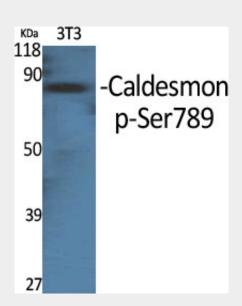
High-molecular-weight caldesmon (isoform 1) is predominantly expressed in smooth muscles, whereas low-molecular-weight caldesmon (isoforms 2, 3, 4 and 5) are widely distributed in non-muscle tissues and cells. Not expressed in skeletal muscle or heart

Caldesmon (phospho Ser789) Polyclonal Antibody - Protocols

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

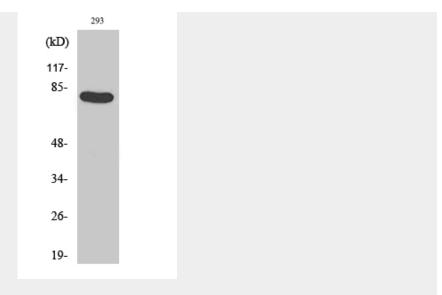
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Caldesmon (phospho Ser789) Polyclonal Antibody - Images



Western Blot analysis of various cells using Phospho-Caldesmon (S789) Polyclonal Antibody





Western Blot analysis of 293 cells using Phospho-Caldesmon (S789) Polyclonal Antibody

Caldesmon (phospho Ser789) Polyclonal Antibody - Background

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