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## **Caldesmon Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 251716

**Unit:** 0.1 mg

### **Description:**

Caldesmon is an actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells. Caldesmon stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, caldesmon inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin. Caldesmon interacts with actin, myosin, two molecules of tropomyosin and with calmodulin. Caldesmon also plays an essential role during cellular mitosis and receptor capping.

**Isotype:** Mouse IgG1

**Applications:** E, WB, IHC

**Species Reactivity:** H, M, R

**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 2% BSA with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** Caldesmon; CDM; CALD1; CAD; CDM

**Accession No.:** Q05682

**Antigen:** Caldesmon from turkey gizzard.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.