



Caldesmon (phospho Ser789) rabbit pAb

Cat#: orb764394 (Manual)

For research use only. Not intended for diagnostic use.

Product Name Caldesmon (phospho Ser789) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions 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.

Immunogen The antiserum was produced against synthesized peptide derived from

human Caldesmon around the phosphorylation site of Ser789. AA range:744-

793

Specificity Phospho-Caldesmon (S789) Polyclonal Antibody detects endogenous levels

of Caldesmon protein only when phosphorylated at S789.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Caldesmon

Gene Name CALD1

Cellular localization Cytoplasm, cytoskeleton . Cytoplasm, myofibril . Cytoplasm, cytoskeleton,

stress fiber. On thin filaments in smooth muscle and on stress fibers in

fibroblasts (nonmuscle). .

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.





Clonality Polyclonal

Concentration 1 mg/ml

Observed band 80kD

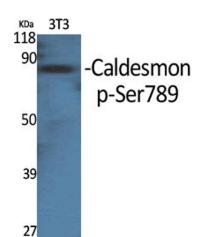
Human Gene ID 800

Human Swiss-Prot Number Q05682

Alternative Names CALD1; CAD; CDM; Caldesmon; CDM

Background

This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008],

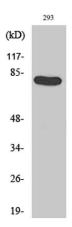


Western Blot analysis of various cells using Phospho-Caldesmon (S789) Polyclonal Antibody

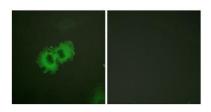




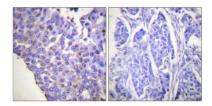
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Western Blot analysis of 293 cells using Phospho-Caldesmon (S789) Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using Caldesmon (Phospho-Ser789) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Caldesmon (Phospho-Ser789) Antibody. The picture on the right is blocked with the phospho peptide.