

Caldesmon (phospho Ser759) rabbit pAb

Cat No.:ES7604

For research use only

Overview

Specificity

Product Name Caldesmon (phospho Ser759) rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA:

1/10000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human Caldesmon around the phosphorylation site of Ser759. AA range:725-774 Phospho-Caldesmon (\$759) Polyclonal Antibody

detects endogenous levels of Caldesmon protein

only when phosphorylated at S759.

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

0.02% sodium azide.

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

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

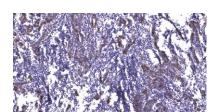


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conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating 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],



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

