

Recombinant

DGRmAb®

Caldesmon (DGR11987) Rabbit mAb (AF488)

db12512-DL488

Package : 100µL

Product Name : Caldesmon (DGR11987) Rabbit mAb (AF488)**Cat.No.:** db12512-DL488**Synonyms** : CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22**Application** : IHC-P, ICC/IF, FC**Reactivity** : Human, Mouse, Rat**Host species** : Rabbit**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]

Immunogen

A synthetic peptide of human Caldesmon

Gene ID

800

Swiss Prot

Q05682

Synonyms

CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22

Reactivity

Human, Mouse, Rat

Application

IHC-P, ICC/IF, FC

Recommended dilution

ICC/IF: 1:200

Calculated MW

93 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR11987

Isotype

IgG

Purity

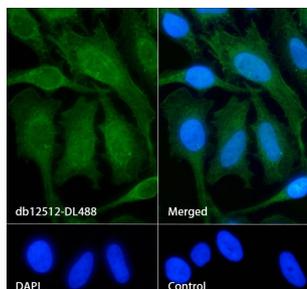
Affinity Purification

Conjugation

AF488

Concentration 1 mg/mL

Storage Stability Store at -20°C. Avoid exposure to light. Supplied in PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3. Stable for 12 months from date of receipt.



Immunofluorescence analysis of HeLa cells labelling Caldesmon with db12512-DL488.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12512-DL488 (1:200, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: DAPI only.