

Recombinant

DGRmAb®

Caldesmon (DGR11987) Rabbit mAb (PBS Only)

db12512-PBS

Package : 10µg 100µg

Product Name : Caldesmon (DGR11987) Rabbit mAb (PBS Only)**Cat.No.:** db12512-PBS**Synonyms** : CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22**Application** : WB, IHC-P, ICC/IF, FC, IP**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

WB, IHC-P, ICC/IF, FC, IP

Calculated MW

93 kDa

Observed MW

70-80 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR11987

Isotype

IgG

Purity

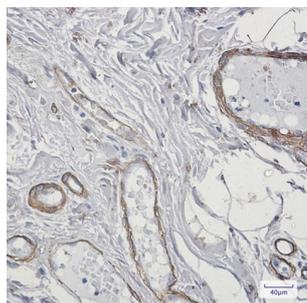
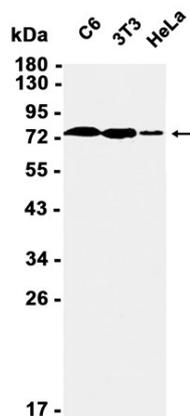
Affinity Purification

Conjugation

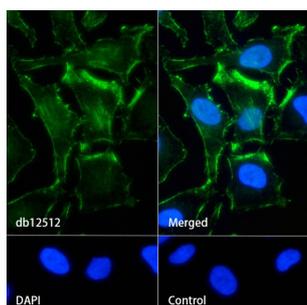
Un-conjugated

Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.

Western blot analysis of extracts from C6, 3T3, HeLa cells using [db12512](#) at 1:1000.



Immunohistochemical analysis of paraffin-embedded human colon cancer using [db12512](#) antibody.



Immunofluorescence analysis of HeLa cells labelling Caldesmon with [db12512](#).

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](#) (1:50) at room temperature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 ([db10005](#), shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.