Recombinant DGRmAb®

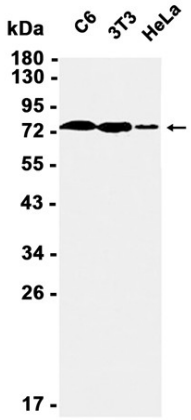
Caldesmon (DGR11987) Rabbit mAb (PBS Only)

db12512-PBS **Package : 10μg 100μg**

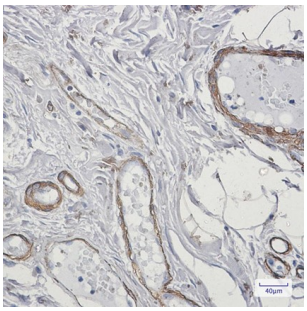
Product Name : Caldesmon (DGR11987) Rabbit mAb (PBS Only)
Cat.No.: db12512-PBS
Synonyms : CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat
Host species : Rabbit

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

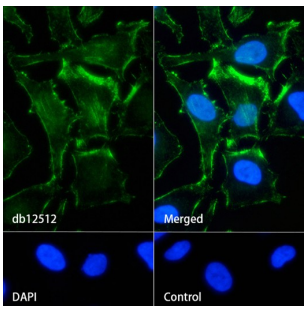
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot analysis of extracts from C6, 3T3, and HeLa cells using db12512 at 1:1000.



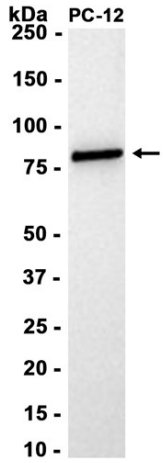
Immunohistochemical analysis of paraffin-embedded human colon cancer using db12512 antibody.



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 temprature 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.



Western blot analysis of extracts from PC-12 cells using db12512 at 1:5000.