Recombinant DGRmAb®

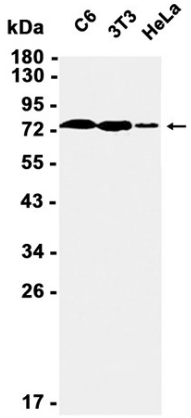
Caldesmon (DGR11987) Rabbit mAb

db12512 **Package : 10μL 20μL 50μL 100μL**

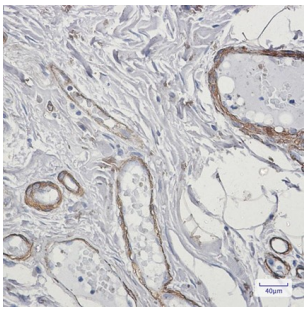
Product Name : Caldesmon (DGR11987) Rabbit mAb
Cat.No.: db12512
Synonyms : CDM; HCAD; LCAD; H-CAD; L-CAD; NAG22
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat
Host species : Rabbit

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
Recommended dilution	WB: 1:2000-1:20000 IHC-P: 1:100 ICC/IF: 1:50 FC: 1:20-1:50 IP: 1:20
Calculated MW	93 kDa
Observed MW	70-80 kDa
Host species	Rabbit
Clonality	Monoclonal

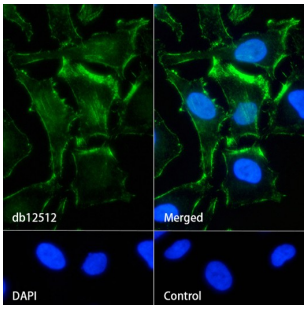
Clonality No.	DGR11987
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



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



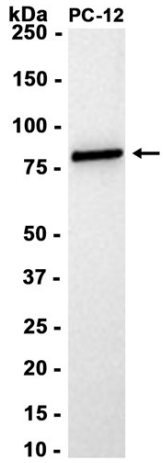
Immunohistochemical analysis of paraffin-embedded human colon cancer using db12512 antibody.



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.