Recombinant DGRmAb®

Caldesmon (DGR11987) Rabbit mAb (AF488)

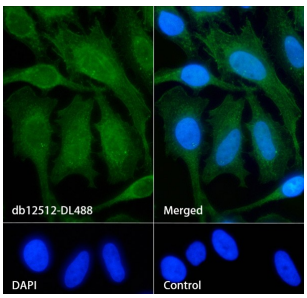
db12512-DL488 **Package : 100μL**

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.