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Anti-Caldesmon Rabbit mAb [20C66]

Catalog No.: A52023

Basic Information

Catalog No. (Cat.No.)	A52023
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Caldesmon,h-CaD,Calsm-1,CaD

Product Information

Target	Caldesmon
Molecular Weight(Calculated)	93 kDa
Molecular Weight(Observed)	70 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	20C66
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Caldesmon 1
Gene Name	*CALD1*
Domain	NA
Background	Caldesmon is a key member of the actin-binding protein family, ubiquitously expressed in smooth muscle cells and various mesenchymal cells, and functions as a core regulator of cytoskeletal contraction and cellular motility. By binding to actin, myosin and calmodulin, Caldesmon modulates actin filament assembly and stability, inhibits excessive smooth muscle contraction, maintains cytoskeletal homeostasis, and participates in multiple biological processes including cell migration, morphological remodeling, smooth muscle contraction and relaxation, and cell division. It contains high-molecular and low-molecular isoforms, specifically marking smooth muscle differentiation and cell migratory activity respectively. Its aberrant expression is closely associated with smooth muscle lesions, tumor invasion and metastasis, and tissue fibrosis, serving as a vital biomarker for pathological typing and tumor prognosis evaluation.