

Product overview

product name	Caldesmon mouse monoclonal antibody
catalog No.	ATDA00010
Category	Primary antibody
Host	Mouse
Species specificity	This antibody detects endogenous levels of human Caldesmon. Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH8.0 was highly recommended as antigen repair method in paraffin section
Tested applications	IHC-p, WB
Clonality	Monoclonal
Immunogen	Synthesized peptide derived from human Caldesmon.
Alternative Names	Caldesmon (CDM), CALD1, CAD
Uniprot ID	Q05682

Product performance

Form	Liquid
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Stored at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Isotype	IgG2b, Kappa

Dilution range

IHC-p: 1:100-1:500; WB: 1:500-1:2000

Product background

Caldesmon 1 (CALD1) Homo sapiens 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.