

Product overview

product name	Calponin-1 mouse monoclonal antibody
catalog No.	ATDA00011
Category	Primary antibody
Host	Mouse
Species specificity	This antibody detects endogenous levels of human Calponin-1. Heat-induced epitope retrieval (HIER) Citrate buffer of pH6.0 was highly recommended as antigen repair method in paraffin section
Tested applications	IHC-p
Clonality	Monoclonal
Immunogen	Synthesized peptide derived from human Calponin-1.
Alternative Names	Calponin-1,Basic calponin,Calponin H1,smooth muscle,CNN1
Uniprot ID	P51911

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	IgG

Dilution range

IHC-p:1:100-1:500

Product background

Function:Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction.It is capable of binding to actin,calmodulin,troponin C and tropomyosin.The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.similarity:Belongs to the calponin family.similarity:Contains 1 CH (calponin-homology) domain.similarity: Contains 3 calponin-like repeats.subunit:Part of cGMP kinase signaling complex at least composed of ACTA2/alpha-actin,CNN1 /calponin H1,PLN/phospholamban,PRKG1 and ITPR1.tissue specificity:Smooth muscle,and tissues containing significant amounts of smooth muscle.