

## Product overview

<b>product name</b>	Calponin-1 mouse monoclonal antibody
<b>catalog No.</b>	ATDA00011
<b>Category</b>	Primary antibody
<b>Host</b>	Mouse
<b>Species specificity</b>	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
<b>Tested applications</b>	IHC-p
<b>Clonality</b>	Monoclonal
<b>Immunogen</b>	Synthesized peptide derived from human Calponin-1.
<b>Alternative Names</b>	Calponin-1,Basic calponin,Calponin H1,smooth muscle,CNN1
<b>Uniprot ID</b>	P51911

## Product performance

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