

For Research Use Only

Calponin Recombinant monoclonal antibody

Catalog Number: 86977-4-RR



Basic Information

Catalog Number: 86977-4-RR	GenBank Accession Number: BC022015	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1264	CloneNo.: 252040C7
Source: Rabbit	UNIPROT ID: P51911	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:1000-1:4000 IF-P: 1:200-1:800
Isotype: IgG	Full Name: calponin 1, basic, smooth muscle	
Immunogen Catalog Number: AG21384	Calculated MW: 33 kDa	
	Observed MW: 34 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse colon tissue, mouse bladder tissue, rat bladder tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human appendix tissue,
	IF-P : mouse heart tissue,

Background Information

Calponin is a family of actin filament-associated proteins which regulate smooth muscle cell contraction. Three isoforms of calponin exist: calponin h1 (CNN1), calponin h2 (CNN2) and calponin 3 (CNN3). CNN1 is a basic 34-kDa protein specifically expressed in smooth muscle and a marker of smooth muscle cell differentiation.

Storage

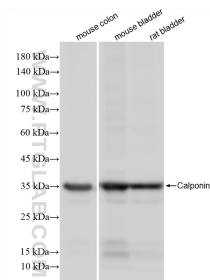
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

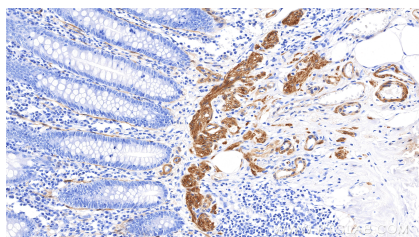
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

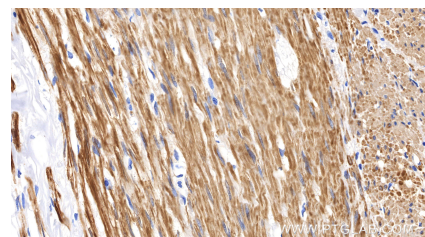
Selected Validation Data



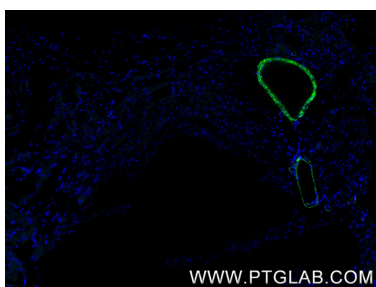
Various lysates were subjected to SDS PAGE followed by western blot with 86977-4-RR (Calponin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



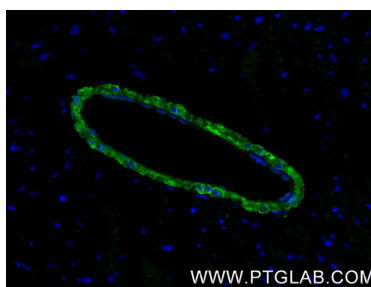
Immunohistochemical analysis of paraffin-embedded human appendix tissue slide using 86977-4-RR (Calponin antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



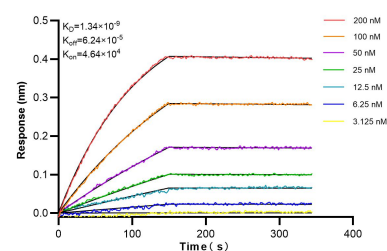
Immunohistochemical analysis of paraffin-embedded human appendix tissue slide using 86977-4-RR (Calponin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Calponin antibody (86977-4-RR, Clone: 252040C7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Calponin antibody (86977-4-RR, Clone: 252040C7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 86977-4-RR against Human Calponin were performed. The affinity constant is 1.34 nM.