

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
Source: Rabbit	GeneID (NCBI): 1264	CloneNo.: 252040C7
Isotype: IgG	UNIPROT ID: P51911	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:1000-1:4000 IF-P: 1:200-1:800
Immunogen Catalog Number: AG21384	Full Name: calponin 1, basic, smooth muscle	
	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

For technical support and original validation data for this product please contact:

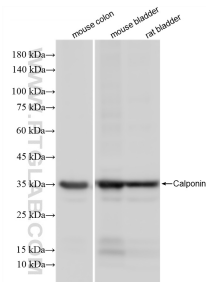
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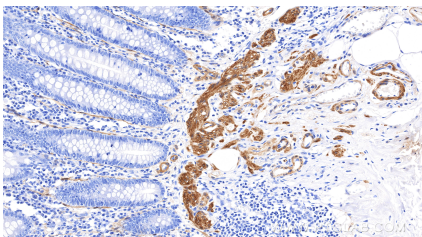
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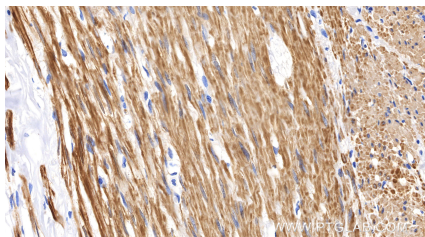
Selected Validation Data



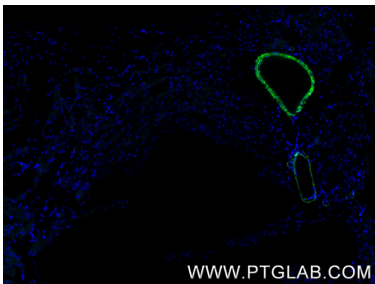
Various lysates were subjected to SDS PAGE followed by western blot with 86977-4-RR (Calponin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



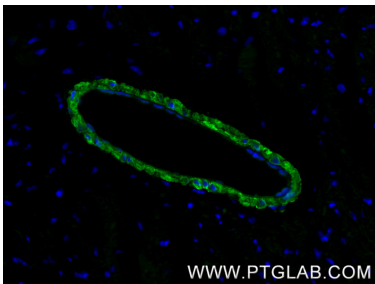
Immunohistochemical analysis of paraffin-embedded human appendix tissue slide using 86977-4-RR (Calponin antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



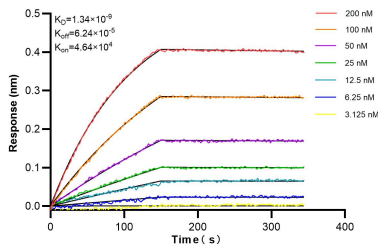
Immunohistochemical analysis of paraffin-embedded human appendix tissue slide using 86977-4-RR (Calponin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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