

For Research Use Only

Calponin Polyclonal antibody

Catalog Number: 24855-1-AP **7 Publications**



Basic Information

Catalog Number: 24855-1-AP	GenBank Accession Number: BC022015	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1264	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P51911	
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, IF, IHC, ELISA	Positive Controls: WB : mouse stomach tissue, IHC : human heart tissue, human breast hyperplasia tissue, human skeletal muscle tissue IF : mouse heart tissue, C2C12 cells
Cited Applications: WB	
Species Specificity: human, mouse	
Cited Species: human, rat, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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. This antibody raised against the specific region of human CNN1, thus it does not cross-react with CNN2 or CNN3.

Notable Publications

Author	Pubmed ID	Journal	Application
Rui Wang	35600979	Bioact Mater	WB
Dongli Liang	28252009	Sci Rep	WB
Huafeng Song	35300115	Front Mol Biosci	WB

Storage

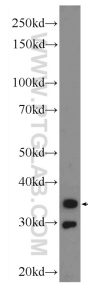
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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.

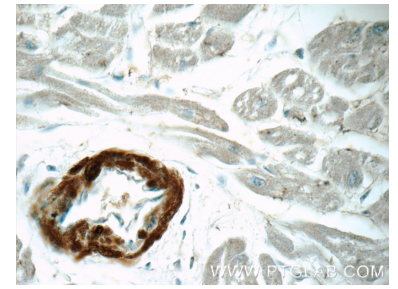
Selected Validation Data



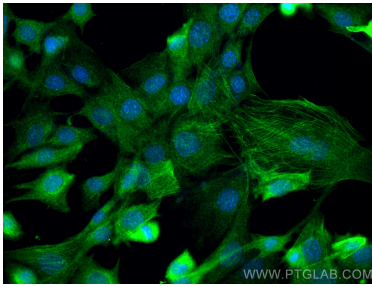
mouse stomach tissue were subjected to SDS PAGE followed by western blot with 24855-1-AP (Calponin Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



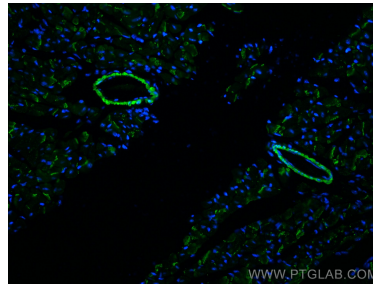
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 24855-1-AP (Calponin Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 24855-1-AP (Calponin Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Calponin antibody (24855-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Calponin antibody (24855-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).