

For Research Use Only

Calponin Polyclonal antibody, PBS Only

Catalog Number: 13938-1-PBS

Featured Product



Basic Information

Catalog Number:

13938-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4989

GenBank Accession Number:

BC022015

GeneID (NCBI):

1264

UNIPROT ID:

P51911

Full Name:

calponin 1, basic, smooth muscle

Calculated MW:

33 kDa

Observed MW:

35 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, Indirect ELISA

Species Specificity:

human, mouse, rat

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-kD protein specifically expressed in smooth muscle and a marker of smooth muscle cell differentiation. This antibody raised against the full-length of human CNN1 may cross-react with CNN2 and CNN3.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

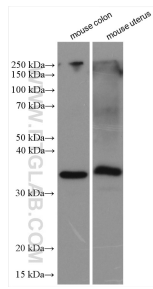
For technical support and original validation data for this product please contact:

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.

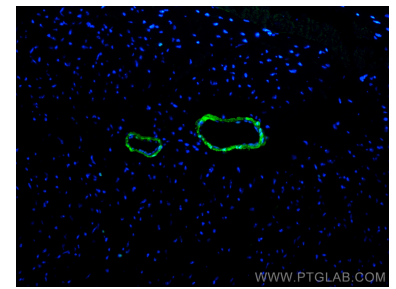
Selected Validation Data



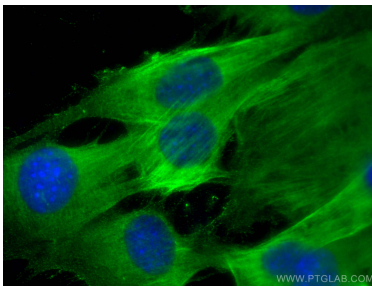
Various lysates were subjected to SDS PAGE followed by western blot with 13938-1-AP (Calponin antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



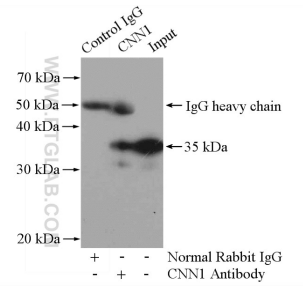
mouse heart tissue were subjected to SDS PAGE followed by western blot with 13938-1-AP (CNN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



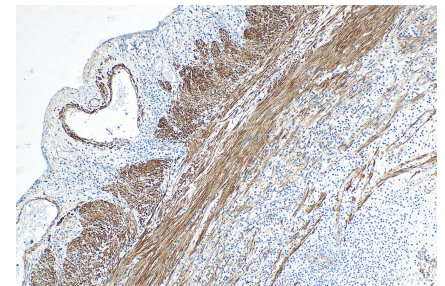
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Calponin antibody (13938-1-AP) at dilution of 1:200 and Multi-rAb CoralLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



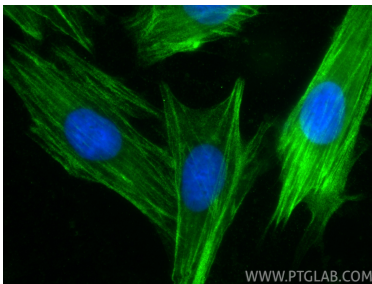
Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Calponin antibody (13938-1-AP) at dilution of 1:400 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



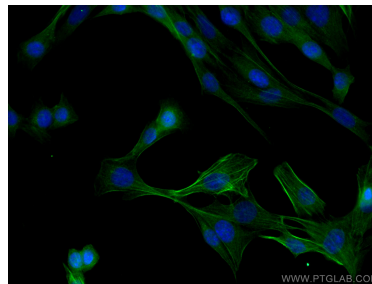
IP result of anti-Calponin (IP:13938-1-AP, 4ug; Detection:13938-1-AP 1:1000) with mouse lung tissue lysate 2800ug. This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



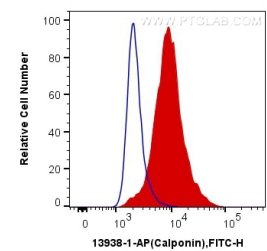
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 13938-1-AP (Calponin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed H9C2 cells using Calponin antibody (13938-1-AP) at dilution of 1:200 and CoralLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Calponin antibody (13938-1-AP) at dilution of 1:200 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.



1X10⁶ C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Calponin (13938-1-AP) and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer. This data was developed using the same antibody clone with 13938-1-PBS in a different storage buffer formulation.