For Research Use Only

Calponin Polyclonal antibody

Catalog Number: 13938-1-AP

Featured Product

52 Publications



Basic Information

Catalog Number: GenBank Accession Number:

13938-1-AP BC022015
Size: GeneI D (NCBI):

Nanodrop; UNIPROT ID:
Source: P51911
Rabbit Full Name:

150ul , Concentration: 500 ug/ml by

Isotype: calponin 1, basic, smooth muscle

IgG Calculated MW:

Immunogen Catalog Number: 33 kDa

AG4989 Observed MW:

35 kDa

Antigen affinity purification Recommended Dilutions: WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:2000-1:8000 IF-P 1:50-1:500 IF/ICC 1:200-1:800

Purification Method:

Applications

Tested Applications:

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

Cited Applications: WB, IHC, IF

Species Specificity: human, mouse, rat Cited Species:

human, mouse, rat, pig, bovine

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

Positive Controls:

IP: mouse lung tissue,

WB: mouse colon tissue, mouse heart tissue, mouse

lung tissue, mouse uterus tissue

IHC: human appendicitis tissue, human ovary tumor tissue, human hysteromyoma tissue, human breast cancer tissue, human bladder tissue, human skin tissue. human heart tissue

IF-P: mouse heart tissue,
IF/ICC: C2C12 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yang Yang	31523025	Acta Biomater	IF
Yan Yan	36068532	Reprod Biol Endocrinol	IHC
Meng Wang	30651790	Exp Ther Med	IF

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

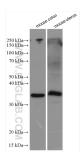
*** 20ul sizes contain 0.1% BSA

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

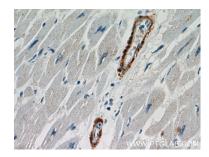
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

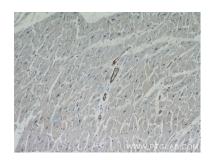
Selected Validation Data



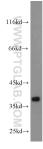
Various lysates were subjected to SDS PAGE followed by western blot with 13938-1-AP (Calponin antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



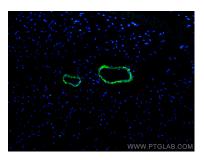
Immunohistochemical analysis of paraffinembedded human heart using 13938-1-AP (CNN1 antibody) at dilution of 1:50 (under 40x lens).



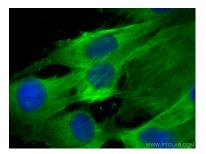
Immunohistochemical analysis of paraffinembedded human heart using 13938-1-AP (CNN1 antibody) at dilution of 1:50 (under 10x lens).



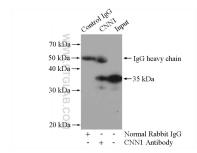
mouse heart tissue were subjected to SDS PAGE followed by western blot with 13938-1-AP (CNN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



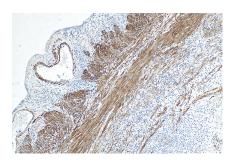
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Calponin antibody (13938-1-AP) at dilution of 1:200 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



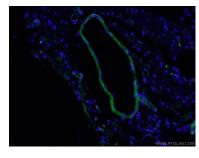
Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Calponin antibody (13938-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



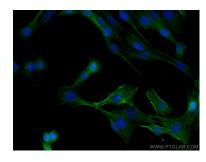
IP result of anti-Calponin (IP:13938-1-AP, 4ug: Detection:13938-1-AP 1:1000) with mouse lung tissue lysate 2800ug.

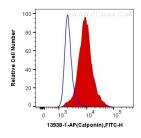


Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using 13938-1-AP (Calponin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 13938-1-AP (Calponin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).





Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Calponin antibody (13938-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Calponin (13938-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit I gG(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 (PF00011-C).