

For Research Use Only

# Calponin Polyclonal antibody

Catalog Number: 24855-1-AP

12 Publications



## Basic Information

### Catalog Number:

24855-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG21384

### GenBank Accession Number:

BC022015

### GeneID (NCBI):

1264

### UNIPROT ID:

P51911

### Full Name:

calponin 1, basic, smooth muscle

### Calculated MW:

33 kDa

### Observed MW:

34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:300-1:1200

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : mouse stomach tissue,

IHC : human colon tissue, human breast hyperplasia tissue, human heart tissue, human skeletal muscle tissue

IF-P : mouse heart tissue,

IF/ICC : C2C12 cells,

**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

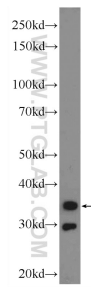
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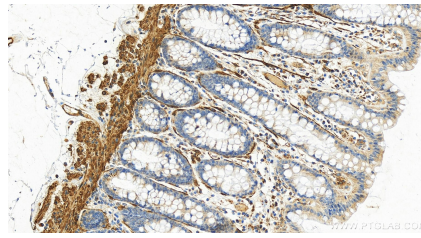
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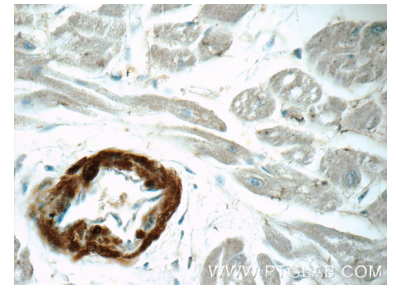
## Selected Validation Data



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.



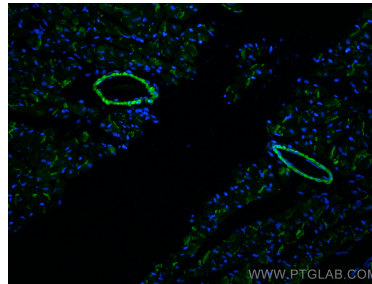
Immunohistochemical analysis of paraffin-embedded human normal colon slide using 24855-1-AP (Calponin antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



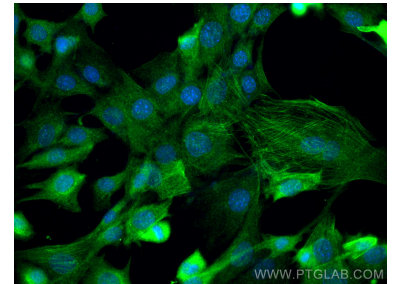
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 24855-1-AP (Calponin Antibody) at dilution of 1:50 (under 40x lens).



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



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).



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).