

For Research Use Only

# Calponin Polyclonal antibody

Catalog Number: 24855-1-AP

3 Publications



## Basic Information

<b>Catalog Number:</b> 24855-1-AP	<b>GenBank Accession Number:</b> BC022015	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1264	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> calponin 1, basic, smooth muscle	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 33 kDa	
<b>Immunogen Catalog Number:</b> AG21384	<b>Observed MW:</b> 34 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	WB: mouse stomach tissue,
<b>Species Specificity:</b> human, mouse	IHC: human heart tissue, human breast hyperplasia tissue, human skeletal muscle tissue
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Dongli Liang	28252009	Sci Rep	WB
Xiao-Feng Yue	33402547	Asian J Androl	WB
Xingqiang He	32916601	Mol Ther Nucleic Acids	WB

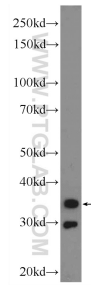
## Storage

**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

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

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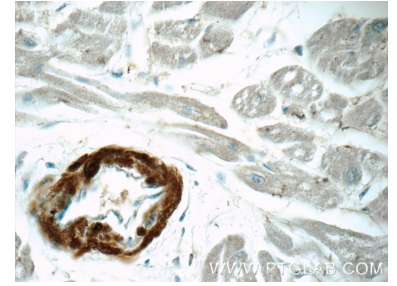
## Selected Validation Data



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 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).