

For Research Use Only

# CNN2 Polyclonal antibody

Catalog Number: 21073-1-AP

Featured Product

6 Publications



## Basic Information

<b>Catalog Number:</b> 21073-1-AP	<b>GenBank Accession Number:</b> BC141818	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop and 307 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1265	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:20-1:200 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99439	
<b>Isotype:</b> IgG	<b>Full Name:</b> calponin 2	
<b>Immunogen Catalog Number:</b> AG15225	<b>Calculated MW:</b> 309 aa, 34 kDa	
	<b>Observed MW:</b> 34-36 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HepG2 cells
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human heart tissue, human hysteromyoma tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HepG2 cells,
<b>Cited Species:</b> human, mouse, rat	

**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). Calponin 1 and calponin 2 are predominately expressed in smooth muscle cells and cardiac muscle cells, respectively. Calponin 3 is highly expressed in many tissues including articular cartilage and brain.

## Notable Publications

Author	Pubmed ID	Journal	Application
Felipe Paredes	31656131	Circ Res	IF
Shu-Jie Wu	33815099	Front Pharmacol	WB
Holly Holliday	33554073	iScience	IHC, WB

## Storage

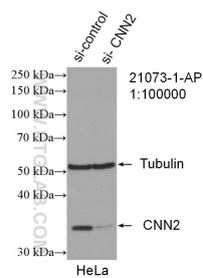
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

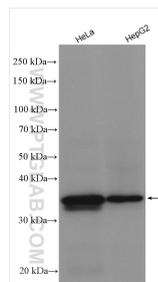
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

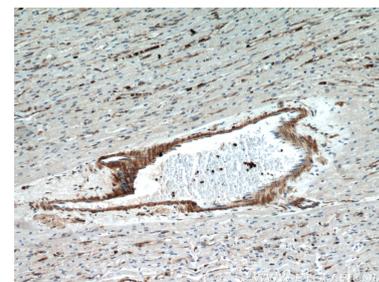
## Selected Validation Data



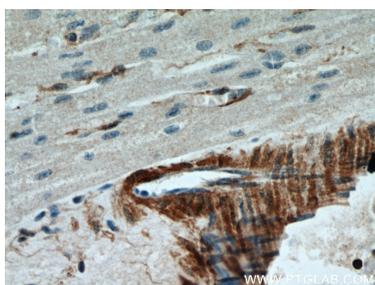
WB result of CNN2 antibody (21073-1-AP; 1:100000); incubated at room temperature for 1.5 hours) with sh-Control and sh-CNN2 transfected HeLa cells.



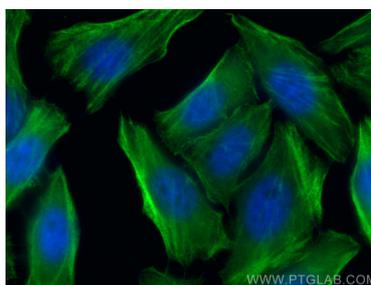
Various lysates were subjected to SDS PAGE followed by western blot with 21073-1-AP (CNN2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 21073-1-AP (CNN2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 21073-1-AP (CNN2 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CNN2 antibody (21073-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).