

For Research Use Only

CNN2 Polyclonal antibody

Catalog Number: 21073-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: 21073-1-AP	GenBank Accession Number: BC141818	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 307 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1265	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	Full Name: calponin 2	
Isotype: IgG	Calculated MW: 309 aa, 34 kDa	
Immunogen Catalog Number: AG15225	Observed MW: 34-36 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

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:

WB : HeLa cells, HepG2 cells

IHC : human heart tissue, human hystero myoma tissue

IF : HeLa cells, HepG2 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). 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

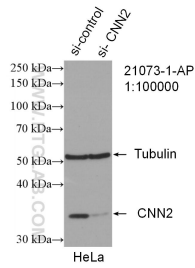
For technical support and original validation data for this product please contact:

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

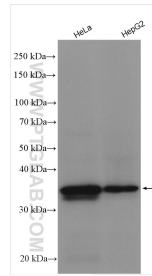
E: proteintech@ptglab.com
W: ptglab.com

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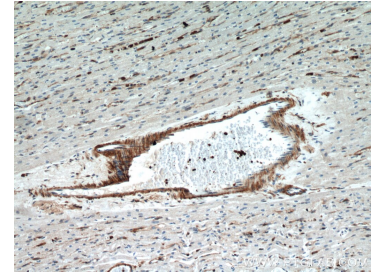
Selected Validation Data



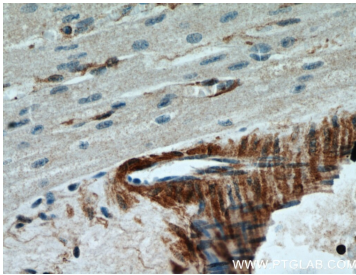
WB result of CNN2 antibody (21073-1-AP; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNN2 transfected HeLa cells.



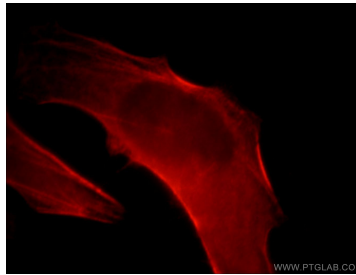
Various lysates were subjected to SDS PAGE followed by western blot with 21073-1-AP (CNN2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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 HepG2 cells, using CNN2 antibody 21073-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).