

For Research Use Only

# CNN3 Recombinant monoclonal antibody

Catalog Number:86550-3-RR



## Basic Information

Catalog Number:	86550-3-RR	GenBank Accession Number:	BC025372	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	1266	CloneNo.:	251475E9
Source:	Rabbit	UNIPROT ID:	Q15417	Recommended Dilutions:	WB: 1:5000-1:50000 IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IF/ICC: 1:500-1:2000
Isotype:	IgG	Full Name:	calponin 3, acidic		
Immunogen Catalog Number:	AG2068	Calculated MW:	329 aa, 36 kDa		
		Observed MW:	36 kDa		

## Applications

Tested Applications:	WB, IF/ICC, IP, ELISA	Positive Controls:	
Species Specificity:	human, mouse, rat	WB:	HEK-293 cells, NIH/3T3 cells, PC-12 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. CNN3 is the thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction.

## Storage

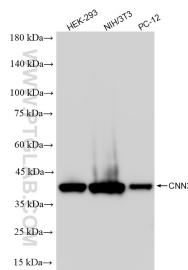
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

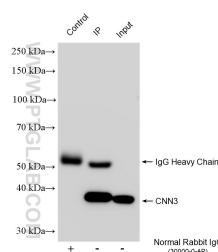
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T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
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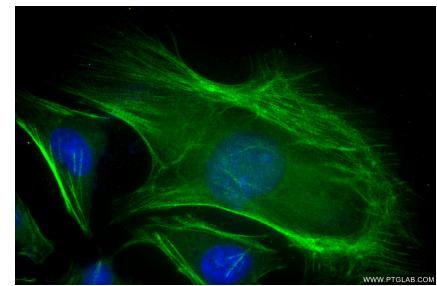
## Selected Validation Data



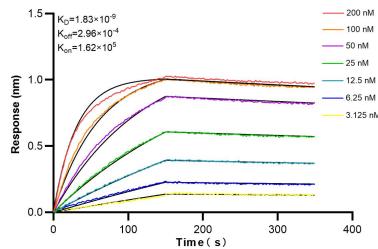
Various lysates were subjected to SDS PAGE followed by western blot with 86550-3-RR (CNN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-CNN3 (IP:86550-3-RR, 4ug; Detection:86550-3-RR 1:2000) with HEK-293 cells lysate 1200 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CNN3 antibody (86550-3-RR, Clone: 251475E9) at dilution of 1:1000 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 86550-3-RR against Human CNN3 were performed. The affinity constant is 1.83 nM.