

For Research Use Only

CNN3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86550-3-PBS



Basic Information

Catalog Number:	86550-3-PBS	GenBank Accession Number:	BC025372	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	1266	CloneNo.:	251475E9
Source:	Rabbit	UNIPROT ID:	Q15417		
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, Indirect ELISA

Species Specificity:
human, mouse, rat

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.

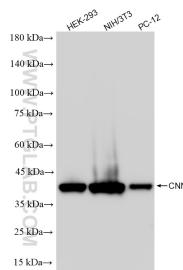
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

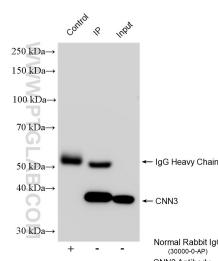
For technical support and original validation data for this product please contact:
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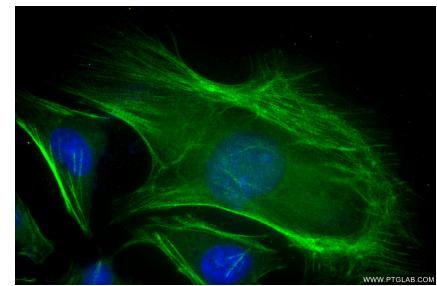
Selected Validation Data



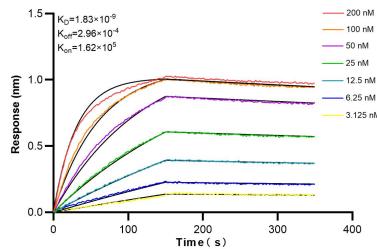
Various lysates were subjected to SDS PAGE followed by western blot with 86550-3-RR (CNN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86550-3-PBS in a different storage buffer formulation.



IP result of anti-CNN3 (IP:86550-3-RR, 4ug; Detection:86550-3-RR 1:2000) with HEK-293 cells lysate 1200 ug. This data was developed using the same antibody clone with 86550-3-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86550-3-PBS in a different storage buffer formulation.



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