

For Research Use Only

# CNN3 Recombinant monoclonal antibody

Catalog Number: 86550-3-RR



## Basic Information

Catalog Number:

86550-3-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2068

GenBank Accession Number:

BC025372

GeneID (NCBI):

1266

UNIPROT ID:

Q15417

Full Name:

calponin 3, acidic

Calculated MW:

329 aa, 36 kDa

Observed MW:

36 kDa

Purification Method:

Protein A purification

CloneNo.:

251475E9

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

## Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, NIH/3T3 cells, PC-12 cells

IP : HEK-293 cells,

IF/ICC : HeLa 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

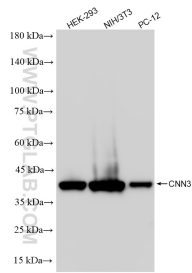
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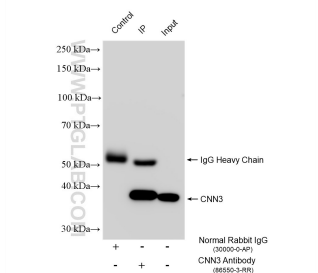
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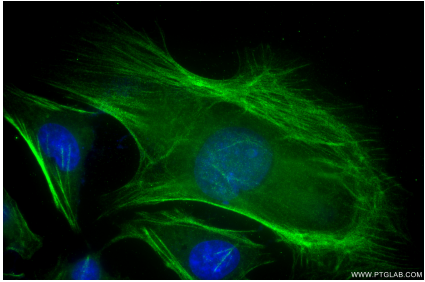
Selected Validation Data



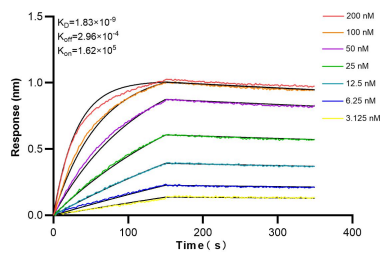
Various lysates were subjected to SDS PAGE followed by western blot with 86550-3-RR (CNN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.