

## Anti-Calponin 3/CNN3 Antibody Picoband®

Catalog Number: A08267-3

### About CNN3

Calponin 3, acidic is a protein that in humans is encoded by the CNN3 gene. This gene encodes a protein with a markedly acidic C terminus; the basic N-terminus is highly homologous to the N-terminus of a related gene, CNN1. Members of the CNN gene family all contain similar tandemly repeated motifs. This encoded protein is associated with the cytoskeleton but is not involved in contraction.

### Overview

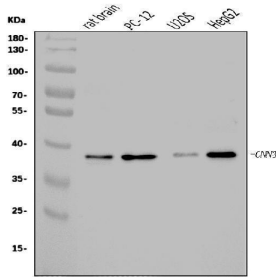
Product Name	Anti-Calponin 3/CNN3 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Calponin 3/CNN3 Antibody Picoband® catalog # A08267-3. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q15417

### Technical Details

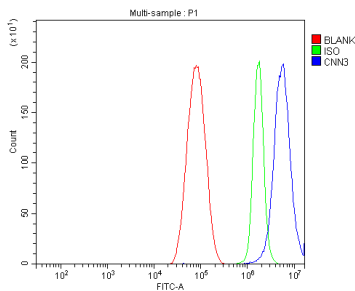
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Calponin 3/CNN3, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.5-0.1 ug/ml, Human, Rat Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human

## Anti-Calponin 3/CNN3 Antibody Picoband® (A08267-3) Images



Western blot analysis of Calponin 3/CNN3 using anti-Calponin 3/CNN3 antibody (A08267-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat PC-12 whole cell lysates, Lane 3: human U20S whole cell lysates, Lane 4: human HepG2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Calponin 3/CNN3 antigen affinity purified polyclonal antibody (Catalog # A08267-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Calponin 3/CNN3 at approximately 36 kDa. The expected band size for Calponin 3/CNN3 is at 36 kDa.



Flow Cytometry analysis of HepG2 cells using anti-Calponin 3/CNN3 antibody (A08267-3). Overlay histogram showing HepG2 cells stained with A08267-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Calponin 3/CNN3 Antibody (A08267-3, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-Calponin 3/CNN3 Antibody

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