

Anti-Calponin CNN1 Rabbit Monoclonal Antibody

Catalog Number: M08065-1

About CNN1

Putative transcription factor involved in pancreas development and function.

Overview

Product Name	Anti-Calponin CNN1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Calponin CNN1 Rabbit Monoclonal Antibody catalog # M08065-1. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal BCC-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P51911

Technical Details

Immunogen	A synthesized peptide derived from human Calponin
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB 1:500-1:2000</p> <p>IHC 1:50-1:200</p> <p>ICC/IF 1:50-1:200</p>

Anti-Calponin CNN1 Rabbit Monoclonal Antibody (M08065-1) Images

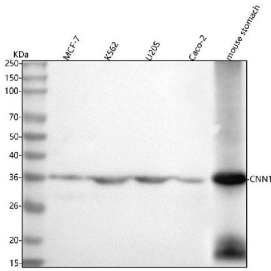


Figure 1. Western blot analysis of CNN1 using anti-CNN1 antibody (M08065-1).

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: human MCF-7 whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human U2OS whole cell lysates,

Lane 4: human Caco-2 whole cell lysates,

Lane 5: mouse stomach tissue 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-

CNN1 antigen affinity purified monoclonal antibody (Catalog

M08065-1) at 1:500 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

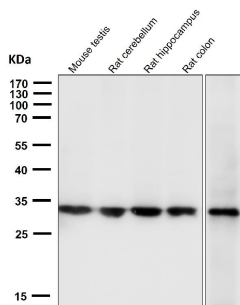
dilution of 1:5000 for 1.5 hour at RT. The signal is developed

using an Enhanced Chemiluminescent detection (ECL) kit

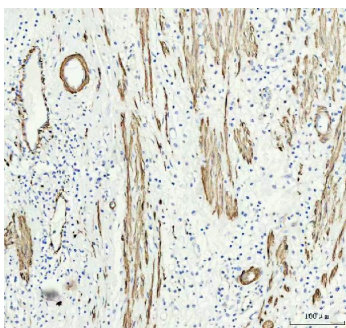
(Catalog # EK1002) with Tanon 5200 system. A specific

band was detected for CNN1 at approximately 35 kDa. The

expected band size for CNN1 is at 33 kDa.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



IHC analysis of Calponin using anti-Calponin antibody (M08065-1).

Calponin was detected in a paraffin-embedded section of human appendicitis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Calponin Antibody (M08065-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

5 Publications Citing This Product

hypoxia. Mol Biol Rep.2021 Mar 1.doi:10.1007/s11033-021-06222-2. Epub ahead of print.PMID:33650080.

2. PubMed ID: 32742325, Zhao Y,Tang N,Xi D,Huang Z,Zhang T,Liu Y,Wang L,Tang Y,Zhong H,He F.Calcilytic NPS2143 promotes proliferation and inhibits apoptosis of spontaneously hypertensive rat vascular smooth muscle cells via activation of the renin-angiotensin system.Exp Ther Med

3. PubMed ID: 27391973, Reduced Expression of the Extracellular Calcium-Sensing Receptor (CaSR) Is Associated with Activation of the Renin-Angiotensin System (RAS) to Promote Vascular Remodeling in the Pathogenesis of Essential Hypertension

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