

# Anti-Calponin CNN1 Rabbit Monoclonal Antibody

Catalog # ABO13916

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC                                                                                                                     |
| <b>Primary Accession</b> | <a href="#">P51911</a>                                                                                                               |
| <b>Host</b>              | Rabbit                                                                                                                               |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                           |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                    |
| <b>Clonality</b>         | Monoclonal                                                                                                                           |
| <b>Format</b>            | Liquid                                                                                                                               |
| <b>Description</b>       | Anti-Calponin CNN1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 1264                                                                                                                                       |
| <b>Other Names</b>         | Calponin-1, Basic calponin, Calponin H1, smooth muscle, CNN1                                                                               |
| <b>Calculated MW</b>       | 33170                                                                                                                                      |
| <b>Application Details</b> | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                     |
| <b>Tissue Specificity</b>  | Smooth muscle, and tissues containing significant amounts of smooth muscle.                                                                |
| <b>Source</b>              | Eukaryota                                                                                                                                  |
| <b>Contents</b>            | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>         | Clone: BCC-3                                                                                                                               |
| <b>Immunogen</b>           | A synthesized peptide derived from human Calponin                                                                                          |
| <b>Purification</b>        | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>             | 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. |

## Protein Information

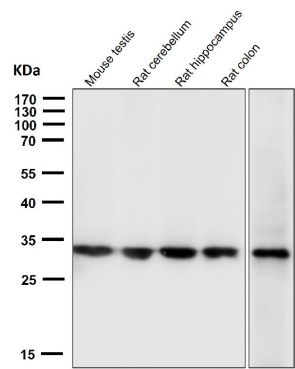
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|-----------------|---------------------------------------------------------------------------|
| <b>Name</b>     | CNN1                                                                      |
| <b>Function</b> | Thin filament-associated protein that is implicated in the regulation and |

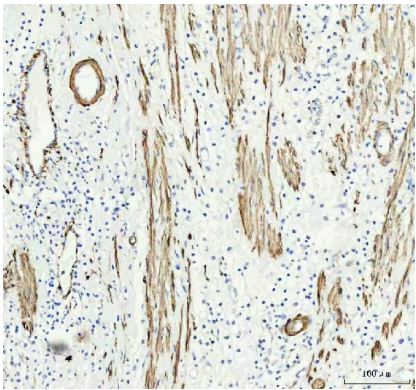
modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity (By similarity).

**Tissue Location** Smooth muscle, and tissues containing significant amounts of smooth muscle

Images



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.

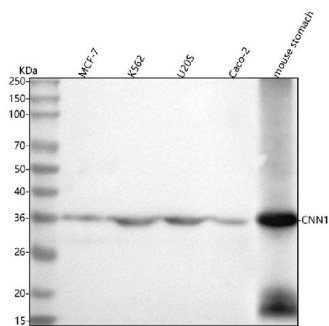


Figure 1. Western blot analysis of CNN1 using anti-CNN1 antibody (M08065-1).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.