# Recombinant Calponin-1 Monoclonal Antibody

**catalog number:** **AN301341L**

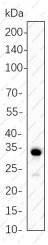
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse;Rat |
| **Immunogen** | Recombinant Human Calponin-1 protein |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C110964 |
| **Purification** | Protein A |
| **Buffer** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

| Applications | Recommended Dilution |
|---|---|
| **IHC** | 1:200-1:1000 |
| **WB** | 1:2000-1:10000 |
| **IF** | 1:200-1:1000 |
| **ELISA** | 1:5000-1:20000 |

## Data




Western Blot with Recombinant Calponin-1 Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: Rat lung cell lysate.

**Observed-MW:33 kDa**

**Calculated-MW:33 kDa**

## Preparation & Storage

| | |
|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | Ice bag |

## Background

CNN-1 (Calponin 1 [calcium and calmodulin-binding troponin T-like protein], also Calponin basic, CaP and Calponin H1) is a 32-36 kDa cytoplasmic member of the calponin family of proteins. Although reportedly expressed in fibroblasts and endothelial cells, it actually appears to be restricted to smooth muscle and smooth muscle-like cells such as myoepithelium and myofibroblasts in the adult. CNN-1 interacts with F-actin in a phosphorylation-dependent manner. When nonphosphorylated, CNN-1 blocks actomyosin ATPase activity, contributing to the stabilization of actin stress fiber bundles. Thus, CNN-1 expression inhibits cell motility and the formation of podosomes. Human CNN-1 is 297 amino acids (aa) in length. It contains one CH/calponin homology domain (aa 30-127), and three consecutive calponin-like repeats (aa 164-268). The repeats are suggested to mediate actin binding. There are five potential Ser/Thr phosphorylation sites. Full-length human CNN-1 shares 97% aa sequence identity with mouse CNN-1.


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