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Calponin Antibody
Rabbit mAb
Catalog # AP90252

Specification

Calponin Antibody - Product Information

Application	**WB, IHC, ICC**
Primary Accession	P51911
Reactivity	**Rat, Pig, Dog**
Clonality	**Monoclonal**

Other Names
Calponin-1; Basic calponin; Calponin H1, smooth muscle; CNN1

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**33170 Da**

Calponin Antibody - Additional Information

Dilution	**WB~~1:1000** **IHC~~1:100~500** **ICC~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Calponin**
Description	**Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-Actin and inhibition of the Actin-activated MgATPase activity of phosphorylated Myosin.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

Calponin Antibody - Protein Information

Name CNN1

Function
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).

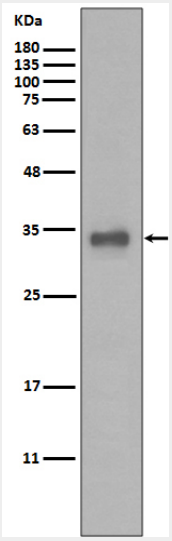
Tissue Location
Smooth muscle, and tissues containing significant amounts of smooth muscle

Calponin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Calponin Antibody - Images



Western blot analysis of Calponin expression in Mouse stomach lysate.