

Calponin Antibody

Rabbit mAb Catalog # AP90252

Specification

Calponin Antibody - Product Information

Application Primary Accession Reactivity Clonality Other Names Calponin-1; Basic calponin; Calponin H	WB, IHC, ICC <u>P51911</u> Rat, Pig, Dog Monoclonal
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).

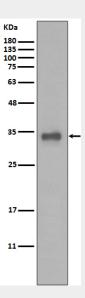
Tissue Location Smooth muscle, and tissues containing significant amounts of smooth muscle

Calponin Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- <u>Flow Cytomety</u>
- <u>Cell Culture</u>

Calponin Antibody - Images



Western blot analysis of Calponin expression in Mouse stomach lysate.