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Calponin Antibody

Rabbit mAb
Catalog # AP90252

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P51911
Reactivity	Rat, Pig, Human, Mouse, Dog
Clonality	Monoclonal
Other Names	Calponin-1; Basic calponin; Calponin H1, smooth muscle; CNN1
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	33170

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
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.

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

Images

Western blot analysis of Calponin expression in Mouse stomach lysate.

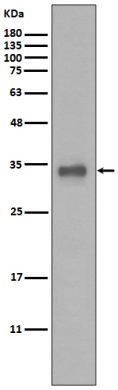


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Immunohistochemical analysis of paraffin-embedded human breast, using Calponin Antibody.

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