

Anti-Calponin Antibody (Monoclonal, CP-93)

Catalog # ABO10406

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q08093
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Calponin, calponin 2 (CNN2) detection. Tested with WB, IHC-P, ICC in Human;chicken;turkey. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	12798
Other Names	Calponin-2, Calponin H2, smooth muscle, Neutral calponin, Cnn2
Calculated MW	33156
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, chicken, turkey, By Heat Immunocytochemistry , 1 μ g/ml, Human, chicken, turkey, - Western blot, 0.25-0.5 μ g/ml, Human, chicken, turkey
Tissue Specificity	Smooth muscle, and tissues containing significant amounts of smooth muscle.
Source	Eukaryota
Protein Name	Calponin-2
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	CP-93
Immunogen	Turkey gizzard calponin
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the calponin family.

Protein Information

Name	Cnn2
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.
Tissue Location	Smooth muscle, and tissues containing significant amounts of smooth muscle

Background

Calponin is a basic 34-kD protein first isolated from chicken gizzard and bovine aorta. It is specifically expressed in smooth muscle and binds calmodulin, actin, and tropomyosin. It is able to inhibit the ATPase activity of myosin and is thought to play a role in smooth muscle contraction. Calponin is a smooth muscle specific, actin-, tropomyosin- and calmodulin-binding protein thought to be involved in some way in the regulation or modulation of contraction.

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