

**Anti-Calponin Antibody (Monoclonal, CP-93)**  
**Catalog # ABO10406****Specification**

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**Anti-Calponin Antibody (Monoclonal, CP-93) - Product Information**

Application	WB, IHC-P, ICC
Primary Accession	<a href="#">Q08093</a>
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.

**Anti-Calponin Antibody (Monoclonal, CP-93) - Additional Information**

**Gene ID** 12798

**Other Names**

Calponin-2, Calponin H2, smooth muscle, Neutral calponin, Cnn2

**Calculated MW**

33156 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, chicken, turkey, By Heat  
Immunocytochemistry , 1 µg/ml, Human, chicken, turkey, -Western blot, 0.25-0.5 µg/ml, Human, chicken, turkey

**Tissue Specificity**

Smooth muscle, and tissues containing significant amounts of smooth muscle.

**Protein Name**

Calponin-2

**Contents**

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

**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.

**Anti-Calponin Antibody (Monoclonal, CP-93) - 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

**Anti-Calponin Antibody (Monoclonal, CP-93) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Calponin Antibody (Monoclonal, CP-93) - Images****Anti-Calponin Antibody (Monoclonal, CP-93) - 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.