

Datasheet for 200-301-P26**Calponin Antibody****Overview**

Description:	Anti-Calponin (MOUSE) Antibody - 200-301-P26
Item No.:	200-301-P26
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Chicken, Turkey
Host Species:	Mouse

Product Details

Background:	Calponin, a basic 34-kD protein, was 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. Anti-Calponin antibody is suitable for researchers interested in cardiovascular diseases, Calcium Regulation in Cardiac Cells, myometrial pathways, skin cancer research, and down syndrome.
Synonyms:	Calponin H2, smooth muscle, Neutral calponin
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	CP-93
Format:	IgG1

Target Details

Gene Name:	CNN2
Reactivity:	Human, Chicken, Turkey
Immunogen Type:	Other
Immunogen:	Calponin antibody was produced in mice by repeated immunizations with turkey gizzard calponin.

Purity/Specificity: Anti-Calponin antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, chicken, and turkey. Cross reactivity with Calponin from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q99439](#)
- [GeneID - 1265](#)
- [NCBI - NP_004359.1](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-Calponin has been tested in Immunohistochemistry-P, Immunocytochemistry, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~33 kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5000

IHC: 1:100-1:500

WB: 0.25-0.5ug/ml

Formulation

Physical State: Lyophilized

Concentration: 1mg/ml by UV absorbance at 280 nm

Buffer: 1.2% sodium acetate

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 2mg BSA

Reconstitution Volume: 1.0 mL

Reconstitution Buffer: Neutral PBS

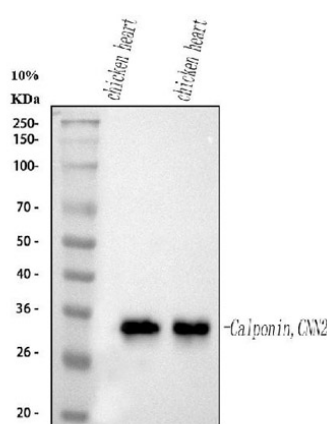
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis of Calponin/CNN2 using anti-Calponin/CNN2 antibody.

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 µg of sample under reducing conditions.

Lane 1: chicken heart tissue lysates, Lane 2: chicken heart tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT.

The membrane was incubated with affinity purified mouse anti-Calponin/CNN2 antigen monoclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at 1:10,000 for 1.5 hour at RT.

The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Calponin/CNN2 at approximately 33 kDa. The expected band size for Calponin/CNN2 is at 33 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.