



Product datasheet

Anti-Calponin 1 antibody [CNN1/832 + CALP] - BSA and Azide free ab212306

[4 Images](#)

Overview

Product name	Anti-Calponin 1 antibody [CNN1/832 + CALP] - BSA and Azide free
Description	Mouse monoclonal [CNN1/832 + CALP] to Calponin 1 - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: IHC-P, ICC
Species reactivity	Reacts with: Rat, Human
Immunogen	<p>This product was produced with the following immunogens:</p> <p>Recombinant full length protein corresponding to Human Calponin 1 aa 1 to the C-terminus. (CNN1/832).</p> <p>Database link: P51911</p> <p>Tissue, cells or virus corresponding to Human Calponin 1. (Crude human uterus extract (CALP)).</p> <p> Run BLAST with  Run BLAST with</p>
Positive control	Human uterus and breast carcinoma tissues; Rat uterus tissue. ICC; K562 cells
General notes	<p>CNN1/832: IgG1 kappa. CALP: IgG1 kappa.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> <p>Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.2

Constituent: 100% PBS

Carrier free

Yes

Purity

Protein G purified

Purification notes

ab212306 was purified from Bioreactor Concentrate by Protein A/G.

Clonality

Monoclonal

Clone number

CNN1/832 + CALP

Isotype

IgG1

Light chain type

kappa

Applications**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab212306 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. (Primary incubation for 30 minutes at RT).
ICC		Use a concentration of 1 - 2 µg/ml.

Target**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, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.

Tissue specificity

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

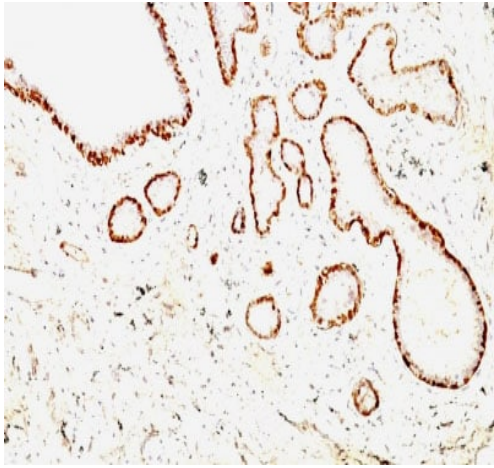
Sequence similarities

Belongs to the calponin family.

Contains 3 calponin-like repeats.

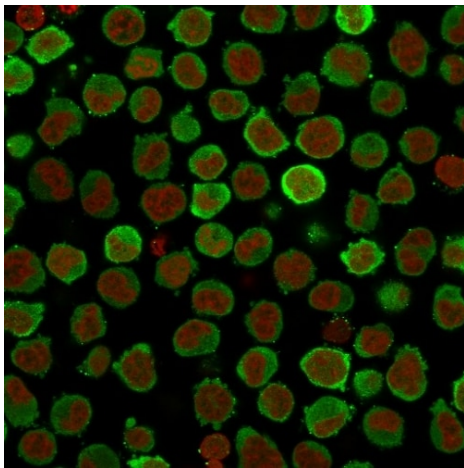
Contains 1 CH (calponin-homology) domain.

Images



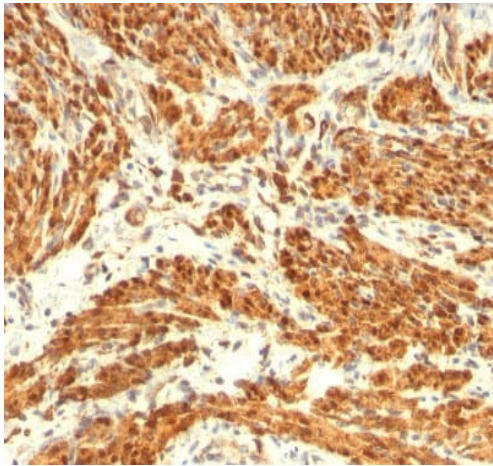
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Rat uterus tissue labeling Calponin 1 with ab212306 at 1 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody
[CNN1/832 + CALP] - BSA and Azide free
(ab212306)



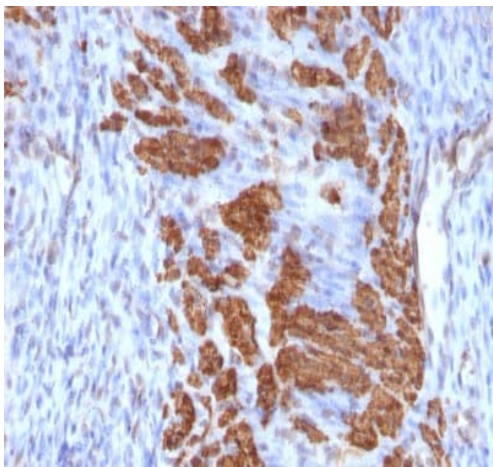
Immunocytochemistry analysis of PFA-fixed K562 (human chronic myelogenous leukemia cell line from bone marrow) cells labeling Calponin 1 with ab212306 at 2 µg/mL followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Redot.

Immunocytochemistry - Anti-Calponin 1 antibody
[CNN1/832 + CALP] - BSA and Azide free
(ab212306)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human breast carcinoma tissue labeling Calponin 1 with ab212306 at 1 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody
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Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human uterus tissue labeling Calponin 1 with ab212306 at 1 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody
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