



## Product datasheet

# Anti-Calponin 1 antibody [CNN1/832 + CALP] $\alpha$ b233854

[1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-Calponin 1 antibody [CNN1/832 + CALP]
<b>Description</b>	Mouse monoclonal [CNN1/832 + CALP] to Calponin 1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	<p><b>This product was produced with the following immunogens:</b></p> <p>Recombinant full length protein corresponding to Human Calponin 1 aa 1 to the C-terminus. (CNN1/832).</p> <p>Database link: <a href="#">P51911</a></p> <p>Tissue, cells or virus. (Crude human uterus extract (CALP)).</p> <p> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a></p>
<b>Positive control</b>	IHC-P: Human uterus and breast carcinoma tissues; Rat uterus tissues. ICC: K562 cells.
<b>General notes</b>	<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&amp;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

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2

	Preservative: 0.05% Sodium azide
	Constituents: PBS, 0.05% BSA
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	Purified from Bioreactor Concentrate by Protein A/G.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	CNN1/832 + CALP
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

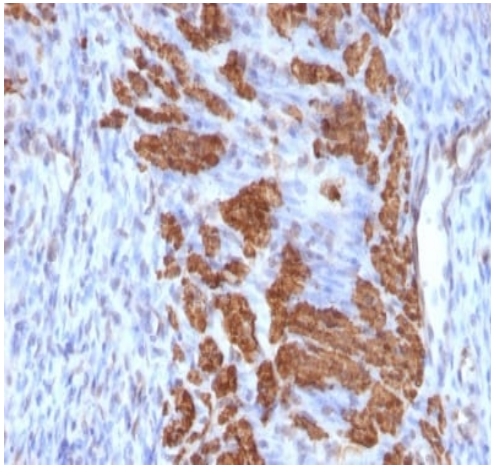
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab233854 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 1 - 2 µg/ml.
IHC-P		Use a concentration of 1 - 2 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).

## Target

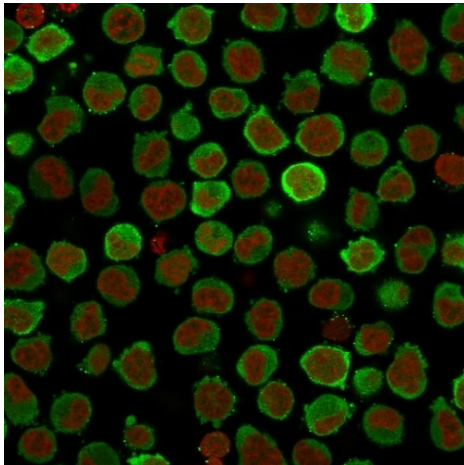
<b>Function</b>	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.
<b>Tissue specificity</b>	Smooth muscle, and tissues containing significant amounts of smooth muscle.
<b>Sequence similarities</b>	Belongs to the calponin family. Contains 3 calponin-like repeats. Contains 1 CH (calponin-homology) domain.

## Images



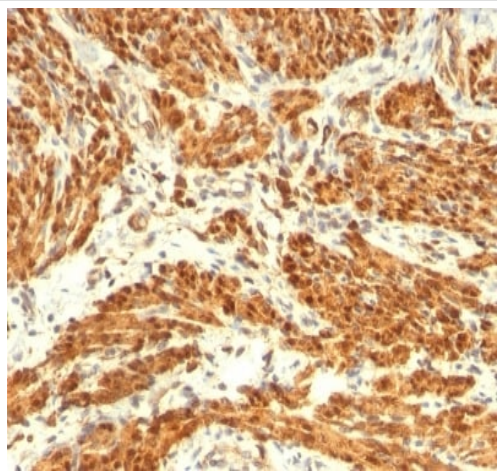
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody  
[CNN1/832 + CALP] (ab233854)

Formalin-fixed, paraffin-embedded human uterus tissue stained for Calponin 1 using ab233854 at 1 µg/ml in immunohistochemical analysis.



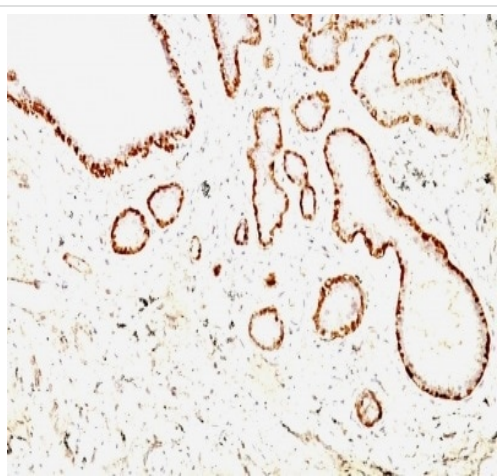
Immunocytochemistry - Anti-Calponin 1 antibody  
[CNN1/832 + CALP] (ab233854)

Immunocytochemistry analysis of PFA-fixed K562 (human chronic myelogenous leukemia cell line from bone marrow) cells labeling Calponin 1 with ab233854 at 2 µg/mL followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Redot.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody  
[CNN1/832 + CALP] (ab233854)

Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained for Calponin 1 using ab233854 at 1 µg/ml in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin 1 antibody  
[CNN1/832 + CALP] (ab233854)

Formalin-fixed, paraffin-embedded rat uterus tissue stained for Calponin 1 using ab233854 at 1 µg/ml in immunohistochemical analysis.

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