

Datasheet for ABIN6939161

**anti-CNN1 antibody**

5 Images

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## Overview

Quantity:	100 µg
Target:	CNN1
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blotting (WB), Staining Methods (StM)

## Product Details

Immunogen:	Crude human uterus extract
Clone:	CALP
Isotype:	IgG1 kappa
Specificity:	<p>Multiple isoelectric variants of calponin have been identified, however only two molecular weight isoforms exist, a 34 kDa form and a 29 kDa form. Expression of the 29 kDa form, I-calponin, is primarily restricted to muscle of the urogenital tract, whereas the higher molecular weight variant has been demonstrated in vascular and visceral smooth muscle. In Western blotting, this MAb reacts with only the 34 kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin. Calponin is a calmodulin, F-actin and tropomyosin binding protein, which is thought to be involved in the regulation of smooth muscle contraction. Calponin expression is restricted to smooth muscle cells and has been shown to be a marker of the differentiated (contractile) phenotype of developing smooth muscle.</p>

## Product Details

Purification: Purified by Protein A/G

## Target Details

Target: CNN1

Alternative Name: CNN1 ([CNN1 Products](#))

Molecular Weight: 34kDa

Gene ID: 1264

UniProt: [P51911](#)

## Application Details

Application Notes: Positive Control: K562 cells, Myoepithelial cells in breast ducts.  
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 1 mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

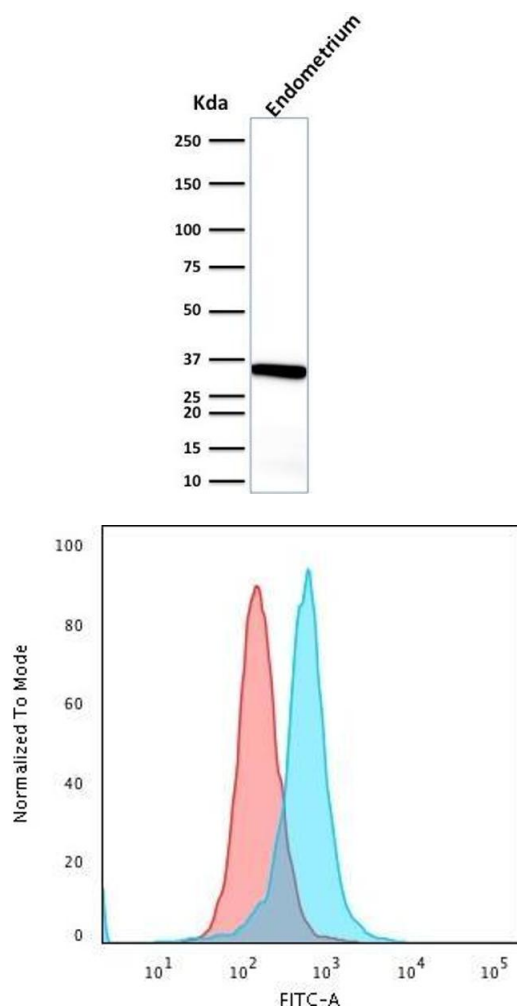
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

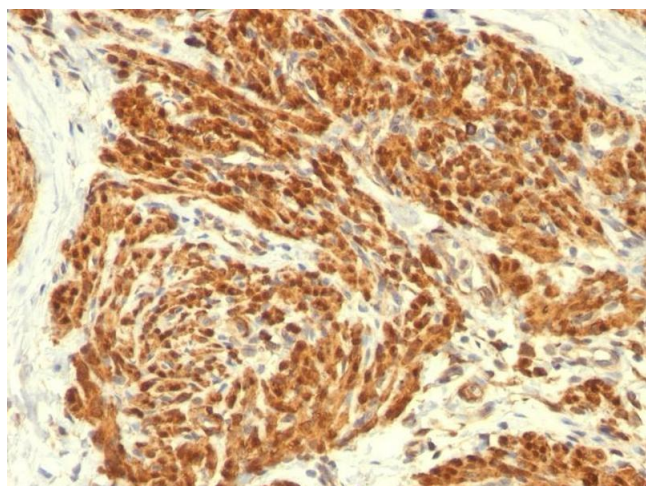


### Western Blotting

**Image 1.** Western Blot Analysis of endometrium using Calponin-1 Mouse Monoclonal Antibody (CALP).

### Flow Cytometry

**Image 2.** Flow Cytometric Analysis of PFA-fixed K562 cells using Calponin-1 Mouse Monoclonal Antibody (CALP ) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Uterus stained with Calponin-1 Mouse Monoclonal Antibody (CALP).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939161.