

Datasheet for ABIN6939165

Recombinant anti-CNN1 antibody

4 Images

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Overview

Quantity:	100 µg
Target:	CNN1
Reactivity:	Human, Rat
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CNN1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human CNN1 protein
Clone:	RCNN1-832
Isotype:	IgG1 kappa
Specificity:	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

Product Details

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.

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: Western Blot (0.5-1 µg/mL), Flow Cytometry (1-2 µg/million cells), Immunohistochemistry (Formalin-fixed) (0.5-1 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.

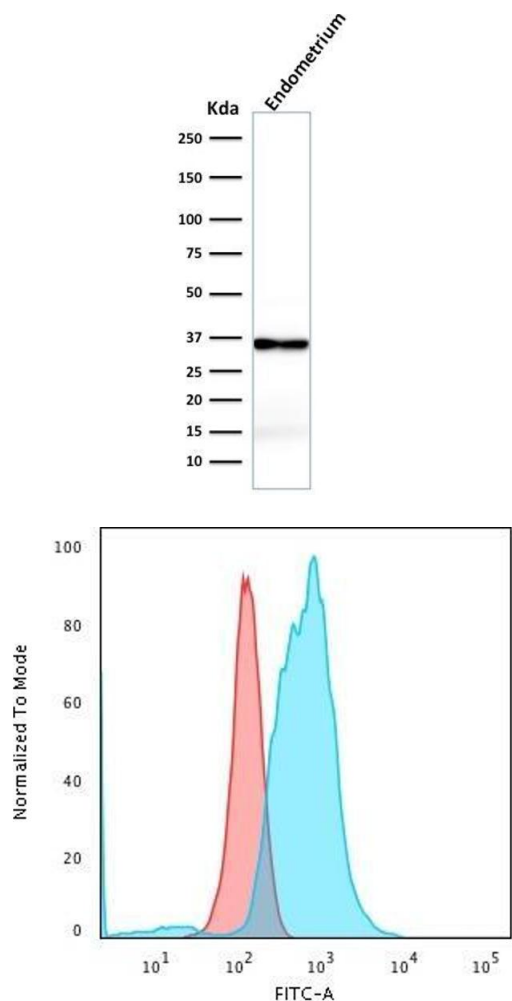
Preservative: Sodium azide

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

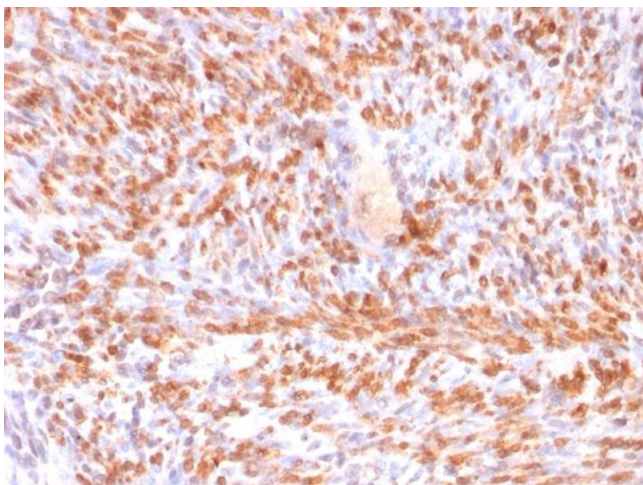


Western Blotting

Image 1. Western Blot Analysis of Endometrium lysate using Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).

Flow Cytometry

Image 2. Flow Cytometric Analysis of PFA-fixed K562 cells using Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Uterus stained with Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939165.