Recombinant Calponin-1 (Smooth Muscle Marker) Antibody

Mouse Monoclonal Antibody [Clone rCNN1/832]

Catalog No	Format	Size
1264-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1264-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1264-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

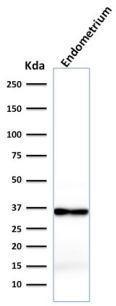
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

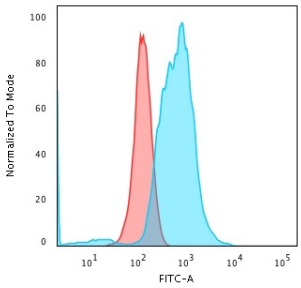
Clone	rCNN1/832
Gene Name	CNN1
Immunogen	Recombinant full-length human CNN1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	34kDa
Species Reactivity	Human, Rat
Positive Control	K562 cells, Myoepithelial cells in breast ducts. Human Skeletal muscle, HEK293.

**Optimal dilution for a specific application should be determined.*

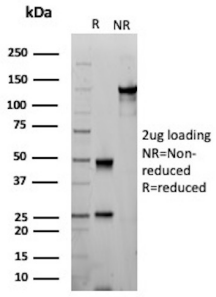
Product Images for Recombinant Calponin-1 (Smooth Muscle Marker) Antibody



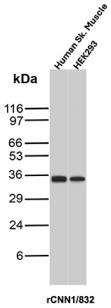
Western Blot Analysis of Endometrium lysate using Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).



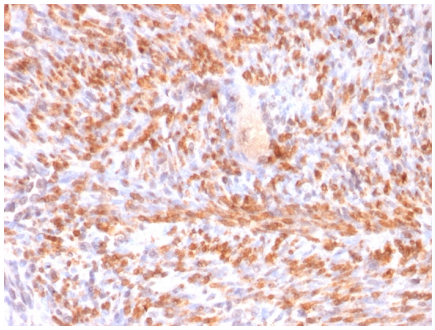
Flow Cytometric Analysis of PFA-fixed K562 cells using Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



SDS-PAGE Analysis of Purified Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Skeletal muscle and HEK293 lysates using Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).



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

Specificity & Comments

Multiple isoelectric variants of calponin have been identified, however only two molecular weight isoforms exist; a 34kDa form and a 29kDa form. Expression of the 29kDa 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 34kDa 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.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.

Research Areas

Cardiovascular, Mesenchymal Stem Cell Differentiation

Limitations and Warranty

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