Recombinant Calponin-1 (Smooth Muscle Marker) Antibody

Rabbit Monoclonal Antibody [Clone CNN1/1408R]

Catalog No	Format	Size
1264-RBM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1264-RBM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1264-RBM4-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

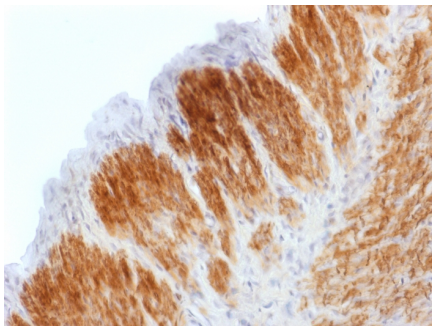
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

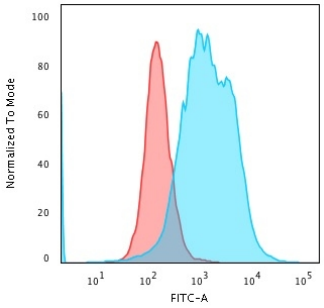
Clone	CNN1/1408R
Immunogen	Recombinant human full-length CNN1 protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	33.17kDa
Species Reactivity	Human
Positive Control	K562 cells, Colon. Myoepithelial cells in breast ducts, Human Heart, Human Sk. Muscle, HEK293, Lung, Skeletal Muscle, Heart

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

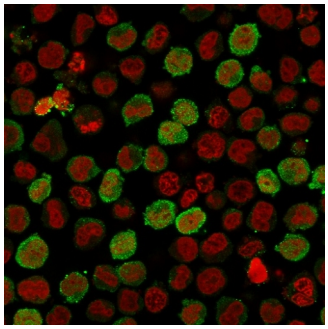
Product Images for Recombinant Calponin-1 (Smooth Muscle Marker) Antibody



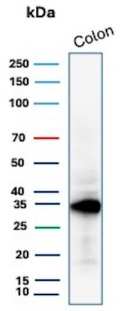
Formalin-fixed, paraffin-embedded Rat Uterus stained with Calponin Rabbit Recombinant Monoclonal Antibody (CNN1/1408R).



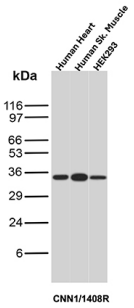
Flow Cytometric Analysis of PFA-fixed K562 cells using Calponin Rabbit Recombinant MAb(CNN1/1408R) followed by Goat anti-Rabbit- IgG-CF488 (Blue); Isotype Control (Red).



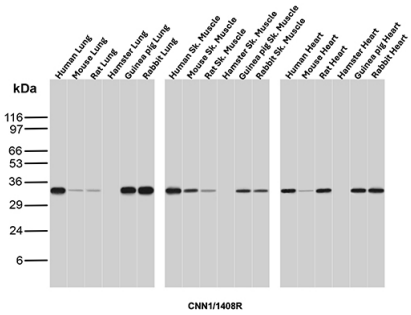
Immunofluorescence Analysis of Human K562 cells labeling CD71 with Calponin Rabbit Recombinant Monoclonal Antibody (CNN1/1408R)followed by Goat anti-rabbit IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



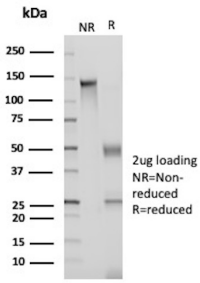
Western Blot Analysis of Colon tissue lysate using Calponin-1 Recombinant Rabbit Monoclonal Antibody (CNN1/1408R).



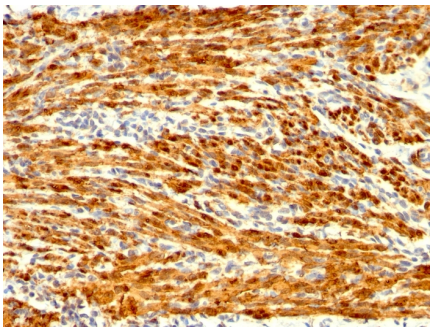
Western Blot analysis of Human Heart, Human Skeletal Muscle, and HEK293 lysates using Calponin-1 / CNN1 Recombinant Rabbit Monoclonal Antibody (CNN1/1408R).



Western Blot Analysis of Human Lung, Mouse Lung, Rat Lung, Hamster Lung, Guinea pig Lung, Rabbit Lung, Human Skeletal Muscle, Mouse Skeletal Muscle, Rat Skeletal Muscle, Hamster Skeletal Muscle, Guinea pig Skeletal Muscle, Rabbit Skeletal Muscle, Human Heart, Mouse Heart, Rat Heart, Hamster Heart, Guinea pig Heart and Rabbit Heart tissue lysates using Calponin-1 Recombinant Rabbit Monoclonal Antibody (CNN1/1408R).



SDS-PAGE Analysis of Purified CNN1 Recombinant Rabbit Monoclonal Antibody (CNN1/1408R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Uterus stained with Calponin Rabbit Recombinant Monoclonal Antibody (CNN1/1408R).

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 a 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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.