

# Product Datasheet

## Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free NBP2-47758-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47758-0.1mg**

Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CNN1/832 + CALP
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	34 kDa

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44482).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	1264
Gene Symbol	CNN1
Species	Human, Rat
Marker	Smooth Muscle Marker
Specificity/Sensitivity	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 monoclonal antibody 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.
Immunogen	Recombinant full-length human Calponin 1 protein (Calponin 1/832); Crude human uterus extract (CALP) (Uniprot: P51911)

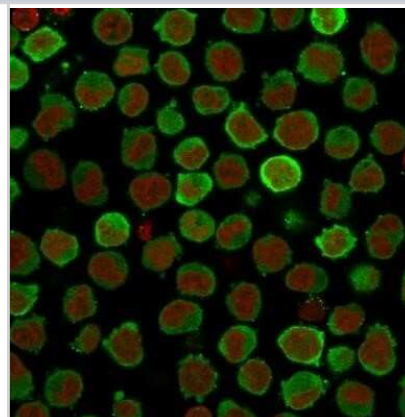
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Immunofluorescence 1 - 2 ug/ml, CyTOF-ready

**Application Notes**

Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

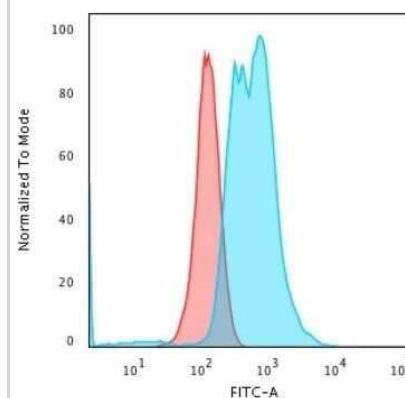
Immunocytochemistry/Immunofluorescence: Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free [NBP2-47758] - Analysis of PFA-fixed K562 cells labeling Calponin using Calponin 1 Antibody (CNN1/832 + CALP) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot.



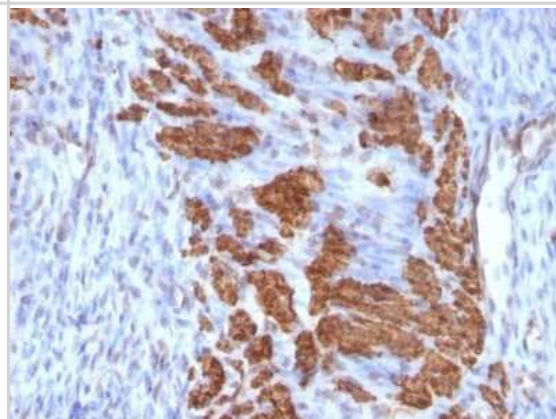
Immunohistochemistry-Paraffin: Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free [NBP2-47758] - Rat Uterus stained with Calponin-1 Monoclonal Antibody (CNN1/832 + CALP).



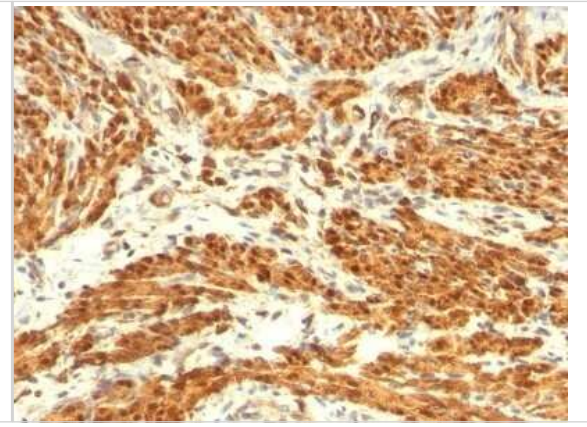
Flow Cytometry: Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free [NBP2-47758] - Analysis of PFA-fixed K562 cells using Calponin 1 Antibody (CNN1/832 + CALP) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free [NBP2-47758] - Human Uterus stained with Calponin-1 Monoclonal Antibody (CNN1/832 + CALP).



Immunohistochemistry-Paraffin: Calponin 1 Antibody (CNN1/832 + CALP) - Azide and BSA Free [NBP2-47758] - Human Breast Carcinoma stained with Calponin-1 Monoclonal Antibody (CNN1/832 + CALP).





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### **Products Related to NBP2-47758-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-98945-100ug	Recombinant Human Calponin 1 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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