

# Product Datasheet

## Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free NBP2-54378-100ug

Unit Size: 100 ug

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

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**NBP2-54378-100ug**

Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CNN1/1408R
Preservative	No Preservative
Isotype	IgG
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 by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-53233).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Rabbit
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 human full-length Calponin 1 protein (Uniprot: P51911)

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

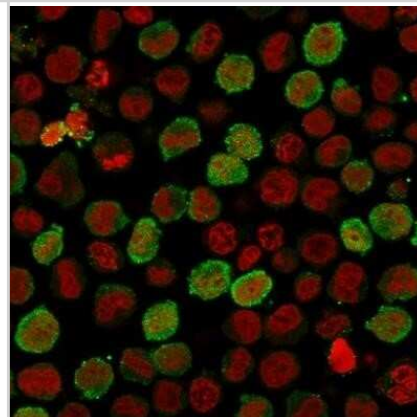


**Application Notes**

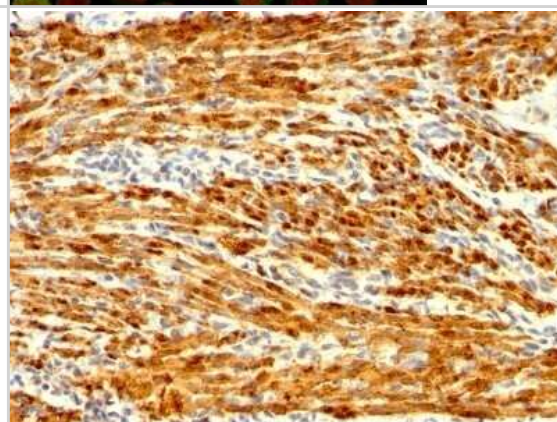
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

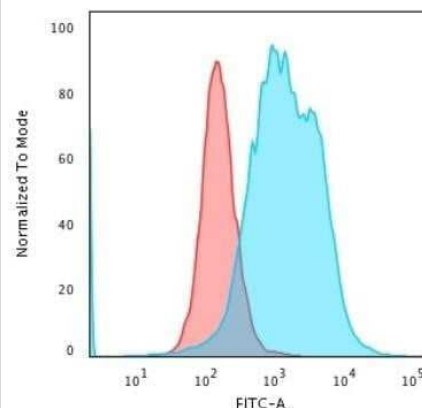
Immunocytochemistry/Immunofluorescence: Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free [NBP2-54378] - Analysis of Human K562 cells labeling CD71 with Calponin 1 Antibody (CNN1/1408R) followed by Goat anti-rabbit IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red).



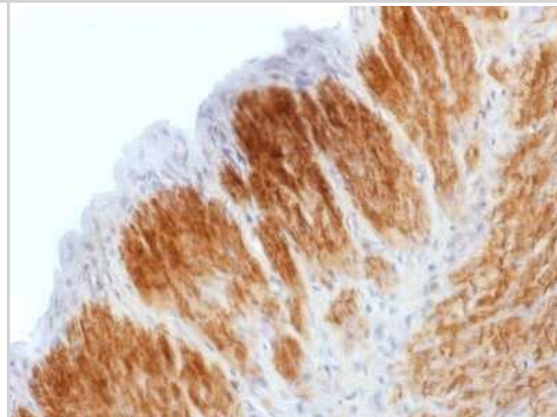
Immunohistochemistry-Paraffin: Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free [NBP2-54378] - Formalin-fixed, paraffin-embedded Human Uterus stained with Calponin Recombinant Rabbit Monoclonal Antibody (CNN1/1408R).



Flow Cytometry: Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free [NBP2-54378] - Analysis of PFA-fixed K562 cells using Calponin 1 Antibody (CNN1/1408R) followed by Goat anti-Rabbit- IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: Calponin 1 Antibody (CNN1/1408R) - Azide and BSA Free [NBP2-54378] - Formalin-fixed, paraffin-embedded Rat Uterus stained with Calponin Recombinant Rabbit Monoclonal Antibody (CNN1/1408R).





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### Products Related to NBP2-54378-100ug

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-98945-100ug	Recombinant Human Calponin 1 His Protein

### 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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