

# Product Datasheet

## Calponin 1 Antibody (CALP)

### NBP2-44479-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Updated 8/21/2025 v.20.1

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**NBP2-44479-0.1mg**

Calponin 1 Antibody (CALP)

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	CALP
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Target Molecular Weight</b>	34 kDa

**Product Description**

<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47712)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	1264
<b>Gene Symbol</b>	CNN1
<b>Species</b>	Human, Rat
<b>Marker</b>	Smooth Muscle Marker
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	Crude human uterus extract

**Product Application Details**

<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Flow (Intracellular)

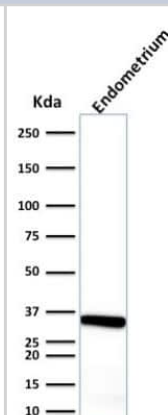


**Application Notes**

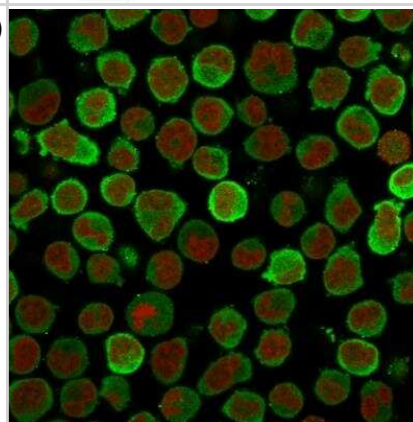
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

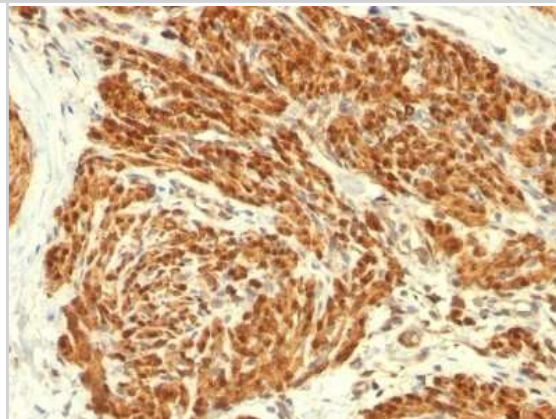
Western Blot: Calponin 1 Antibody (CALP) [NBP2-44479] - Analysis of endometrium using Calponin 1 Antibody (CALP).



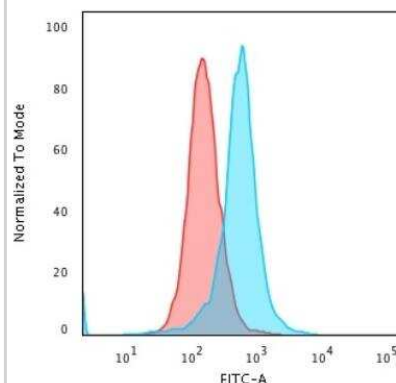
Immunocytochemistry/Immunofluorescence: Calponin 1 Antibody (CALP) [NBP2-44479] - Analysis of PFA-fixed K562 cells labeling Calponin using Calponin 1 Antibody (CALP) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot.



Immunohistochemistry-Paraffin: Calponin 1 Antibody (CALP) [NBP2-44479] - Human Uterus stained with Calponin-1 Monoclonal Antibody (CALP).



Flow Cytometry: Calponin 1 Antibody (CALP) [NBP2-44479] - Analysis of PFA-fixed K562 cells using Calponin 1 Antibody (CALP) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



## Publications

Kim H, Lee SB, Myung JK et al. SLUG is a key regulator of epithelial-mesenchymal transition in pleomorphic adenoma Laboratory investigation; a journal of technical methods and pathology 2022-02-10 [PMID: 35145202] (IHC-P, Human)





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### **Products Related to NBP2-44479-0.1mg**

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

### **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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