

Product Datasheet

Calponin Antibody (orb749471)

Catalog Number	orb749471
Category	Antibodies
Description	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. 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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human, Rat
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	Recombinant human protein was used as the immunogen for the anti-Calponin antibody.
UniProt ID	P51911
Tested applications	IF, IHC-P, WB

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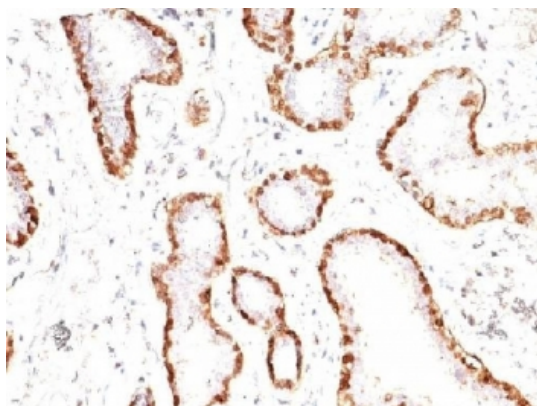
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Dilution range	Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT, Western blot: 2-4ug/ml
Application notes	Optimal dilution of the anti-Calponin antibody should be determined by the researcher. 1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min. 2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	CNN1/832
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with anti-Calponin antibody (clone CNN1/832).

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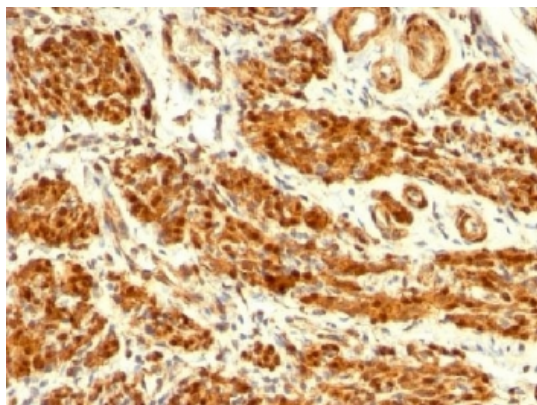
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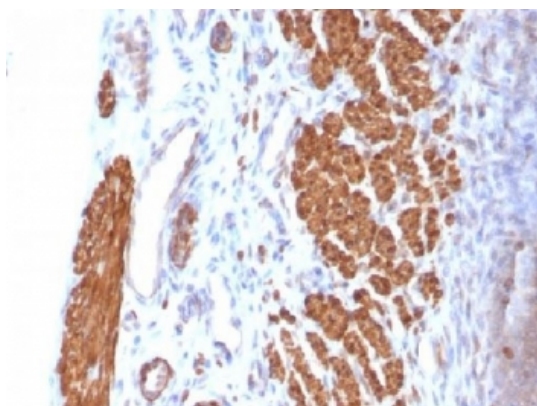
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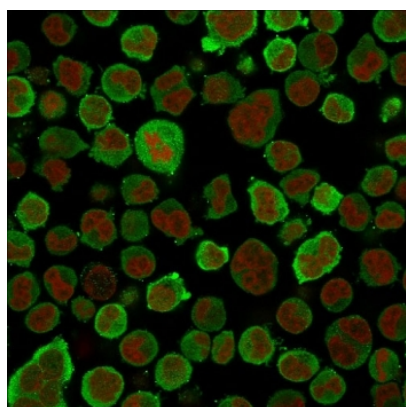
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IHC: Formalin-fixed, paraffin-embedded human uterus stained with anti-Calponin antibody (clone CNN1/832).



IHC: Formalin-fixed, paraffin-embedded rat uterus stained with anti-Calponin antibody (clone CNN1/832).



Immunofluorescent staining of PFA-fixed human K562 cells with anti-Calponin antibody (green, clone CNN1/832) and Reddot nuclear stain (red).

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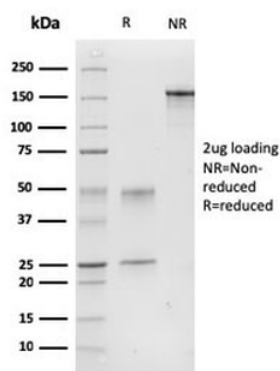
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SDS-PAGE analysis of purified, BSA-free Calponin antibody (clone CNN1/832) as confirmation of integrity and purity.

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