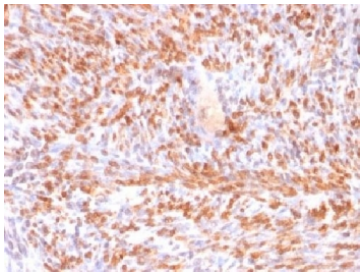
Recombinant Calponin Antibody [clone rCNN1/832] (V3772)

Catalog No.	Formulation	Size
V3772-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3772-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3772SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3772IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

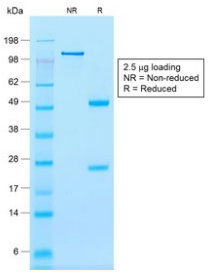
Recombinant MOUSE MONOCLONAL

Bulk quote request

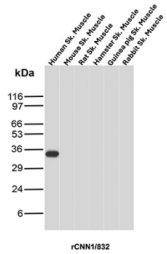
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCNN1/832
Purity	Protein G affinity chromatography
UniProt	P51911
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-2ug/10^6 cells Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This recombinant Calponin antibody is available for research use only.



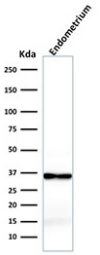
Recombinant Calponin Antibody Human Uterus Tissue IHC. Immunohistochemistry staining of FFPE human uterus with recombinant Calponin antibody (clone rCNN1/832). Required HIER: boil tissue sections in 1mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 min.



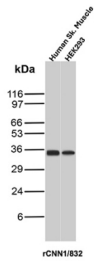
SDS-PAGE analysis of purified, BSA-free recombinant Calponin antibody (clone rCNN1/832) as confirmation of integrity and purity.



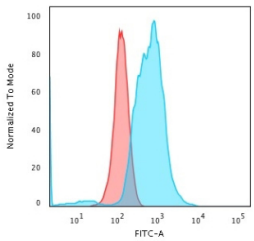
Calponin 1 Antibody Multi-Species Skeletal Muscle WB. Western blot analysis of human skeletal muscle lysate, mouse skeletal muscle lysate, rat skeletal muscle lysate, hamster skeletal muscle lysate, guinea pig skeletal muscle lysate, and rabbit skeletal muscle lysate using Calponin 1 antibody (clone rCNN1/832). A band is detected at approximately 34 kDa, consistent with the predicted molecular weight of Calponin 1 / CNN1. Signal is observed in human skeletal muscle, while other species show minimal detection, reflecting the expected expression pattern of this smooth muscle-associated contractile protein.



Calponin Antibody Endometrium WB. Western blot analysis of human endometrium tissue lysate using Calponin antibody, clone rCNN1/832. A band is detected at approximately 34 kDa, consistent with the predicted molecular weight of Calponin 1 / CNN1. Signal in endometrial tissue reflects the presence of smooth muscle-associated cells within the stromal compartment, supporting its role as a contractile protein marker.



Calponin Antibody Skeletal Muscle and HEK293 WB. Western blot analysis of human skeletal muscle lysate and HEK293 cell lysate using Calponin antibody, clone rCNN1/832. A band is detected at approximately 34 kDa, consistent with the predicted molecular weight of Calponin 1 / CNN1. Signal in skeletal muscle aligns with expression in contractile tissue, while detection in HEK293 cells reflects basal expression of this actin-associated protein in cultured cells.



Calponin 1 Antibody K562 FACS. Flow cytometry analysis of PFA-fixed human K562 cells using Calponin 1 antibody, clone rCNN1/832, followed by goat anti-mouse IgG-CF488 (blue). A clear rightward shift relative to the isotype control (red) indicates intracellular detection of Calponin 1 / CNN1, consistent with cytoplasmic localization of this actin-binding contractile protein.

Description

CNN1 is an actin-associated cytoskeletal protein that contributes to the organization and function of contractile structures in smooth muscle cells. Calponin is a calmodulin, F-actin and tropomyosin binding protein which is thought to be involved in the regulation of smooth muscle contraction.

This Calponin antibody complements a related Calponin 1 antibody targeting CNN1 and smooth muscle-associated contractile protein biology.

Application Notes

Optimal dilution of the recombinant Calponin antibody should be determined by the researcher.

1. 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.

Immunogen

Recombinant human protein was used as the immunogen for the recombinant Calponin antibody.

Storage

Store the recombinant Calponin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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