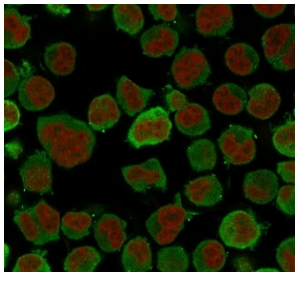
# Calponin Antibody [clone CLPN5-1] (V7050)

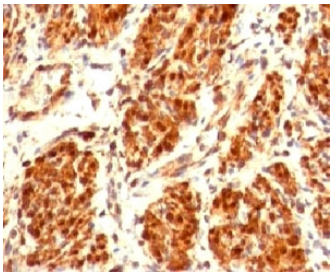
| Catalog No. | Formulation | Size |
|---|---|---|
| V7050-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7050-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7050SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V7050IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

## Bulk quote request

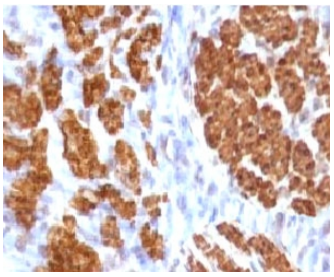
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | CLPN5-1 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P51911 |
| **Localization** | Cytoplasmic |
| **Applications** | Immunofluorescence: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT<br>Prediluted IHC only format: incubate for 30 min at RT (1) |
| **Limitations** | This Calponin antibody is available for research use only. |



Calponin Antibody K562 Cell Immunofluorescence. IF staining of PFA-fixed human K562 cells with Calponin antibody (green, clone CLPN5-1) and Reddot nuclear stain (red).



Calponin Antibody Uterus Immunohistochemistry. IHC testing of FFPE human uterus and Calponin antibody (clone CLPN5-1). Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



Calponin Antibody Rat Uterus Immunohistochemistry. IHC testing of FFPE rat uterus and Calponin antibody (clone CLPN5-1). Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.

## Description

CNN1 is a smooth muscle-specific protein that binds actin filaments and supports regulation of contractile machinery within the cytoskeleton. 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.

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

## Application Notes

Optimal dilution of the 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 Calponin antibody.

## Storage

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

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