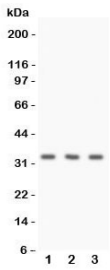
Calponin Antibody (R31348)

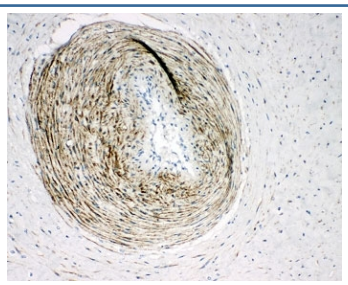
Catalog No.	Formulation	Size
R31348	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P51911
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	This Calponin antibody is available for research use only.



Calponin Antibody Human Sample WB. Western blot testing of Calponin antibody and human 1) HeLa, 2) Jurkat, and 3) MCF7 cell lysate. Expected molecular weight ~33 kDa.



Calponin Antibody Placenta IHC. Immunohistochemistry testing of human placental tissue with Calponin antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.

Description

Calponin 1 (CNN1) is an actin-binding protein that plays a central role in smooth muscle contraction and cytoskeletal organization. It is a basic ~34-kD protein first isolated from chicken gizzard and bovine aorta. This gene is mapped to 19p13.2. It is specifically expressed in smooth muscle and binds calmodulin, actin, and tropomyosin. It is able to inhibit the ATPase activity of myosin and is thought to play a role in smooth muscle contraction. Calponin is a smooth muscle specific, actin-, tropomyosin- and calmodulin-binding protein though to be involved in some way in the regulation or modulation of contraction.

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

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Calponin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Calponin (EPAHNHHAHNYYNSA) was used as the immunogen for this Calponin antibody.

Storage

After reconstitution, the Calponin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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