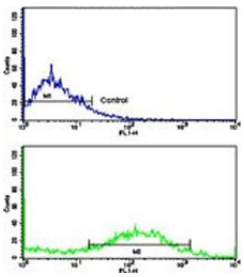
Calponin 1 Antibody (F54886)

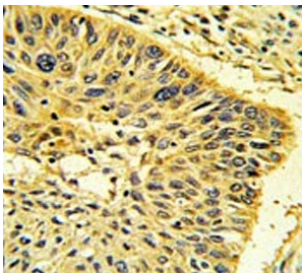
Catalog No.	Formulation	Size
F54886-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54886-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

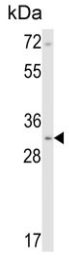
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P51911
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:1000 Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:10-1:50
Limitations	This Calponin 1 antibody is available for research use only.



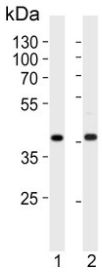
Flow cytometry testing of human NCI-H292 cells with Calponin 1 antibody; Blue=isotype control, Green= Calponin 1 antibody.



IHC testing of FFPE human lung carcinoma tissue tissue with Calponin 1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of human NCI-H460 cell lysate with Calponin 1 antibody. Predicted molecular weight ~33 kDa.



Western blot testing of human 1) HeLa and 2) MDA-MB-453 cell lysate with Calponin 1 antibody. Predicted molecular weight ~33 kDa.

Description

Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity (By similarity).

Application Notes

The stated application concentrations are suggested starting points. Titration of the Calponin 1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 10-39 from the human protein was used as the immunogen for the Calponin 1 antibody.

Storage

Aliquot the Calponin 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.