



Rabbit Anti-CNN3 monoclonal antibody, clone TJ78-12 (CABT-L618)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Calponin
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Dog, Pig
Clone	TJ78-12
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC
Molecular Weight	33 kDa
Cellular Localization	Cytoskeleton
Positive Control	HepG2, human breast tissue, mouse bladder tissue, mouse stomach tissue, mouse heart tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-Actin and inhibition of the Actin-activated MgATPase activity of phosphorylated Myosin. Both properties are lost following phosphorylation (primarily at Serine 175) by protein kinase C or calmodulin-dependent protein kinase II. The three forms of Calponin, Calponin 1 (basic Calponin), Calponin 2 (neutral Calponin) and Calponin 3 (acidic Calponin), are found in smooth muscle tissue. Additionally, Calponin 2 is found in heart muscle tissue and Calponin 3 is found in the brain.
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Keywords	Basic calponin;Calponin 1;Calponin 1 basic smooth muscle;Calponin H1;Calponin H1 smooth muscle;Calponin-1;Calponin1;Calponins basic;CNN 1;Cnn1;CNN1_HUMAN;Epididymis secretory protein Li 14;HEL S 14;Sm Calp;SMCC;smooth muscle antibody
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GENE INFORMATION

Entrez Gene ID	7494
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