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CNN2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12417a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99439
Other Accession	NP_004359.1, NP_958434.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19801
Calculated MW	33697
Antigen Region	9-36

Additional Information

Gene ID	1265
Other Names	Calponin-2, Calponin H2, smooth muscle, Neutral calponin, CNN2
Target/Specificity	This CNN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-36 amino acids from the N-terminal region of human CNN2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CNN2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNN2
Function	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.

Tissue Location	Heart and smooth muscle.

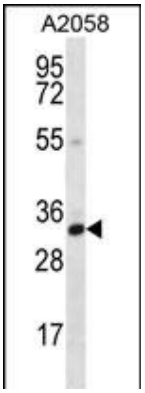
Background

The protein encoded by this gene, which can bind actin, calmodulin, troponin C, and tropomyosin, may function in the structural organization of actin filaments. The encoded protein could play a role in smooth muscle contraction and cell adhesion. Two transcript variants encoding different isoforms have been found for this gene.

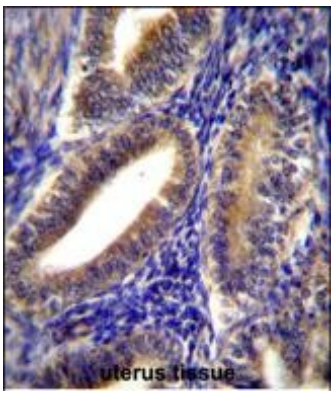
References

Rikova, K., et al. Cell 131(6):1190-1203(2007)
Hossain, M.M., et al. J. Biol. Chem. 280(51):42442-42453(2005)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)
Hossain, M.M., et al. Am. J. Physiol., Cell Physiol. 284 (1), C156-C167 (2003) :

Images



CNN2 Antibody (N-term) (Cat. #AP12417a) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the CNN2 antibody detected the CNN2 protein (arrow).



CNN2 Antibody (N-term) (Cat. #AP12417a)immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CNN2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.