

# 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.

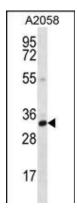
## **Background**

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.

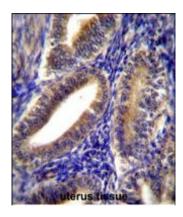
#### References

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.