

Goat Anti-Calponin 2 / CNN2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1180a**Specification**

Goat Anti-Calponin 2 / CNN2 Antibody - Product Information

Application	WB
Primary Accession	O99439
Other Accession	NP_958434 , 1265
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	33697

Goat Anti-Calponin 2 / CNN2 Antibody - Additional Information**Gene ID** 1265**Other Names**

Calponin-2, Calponin H2, smooth muscle, Neutral calponin, CNN2

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Calponin 2 / CNN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Calponin 2 / CNN2 Antibody - 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

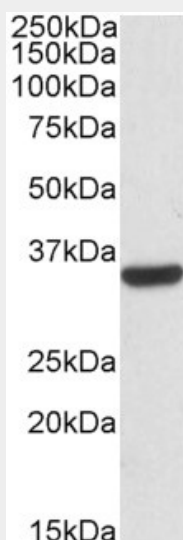
Heart and smooth muscle.

Goat Anti-Calponin 2 / CNN2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Calponin 2 / CNN2 Antibody - Images



AF1180a (0.03 µg/ml) staining of HepG2 lysates (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Calponin 2 / CNN2 Antibody - 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.

Goat Anti-Calponin 2 / CNN2 Antibody - References

h2-Calponin is regulated by mechanical tension and modifies the function of actin cytoskeleton. Hossain MM, et al. J Biol Chem, 2005 Dec 23. PMID 16236705.
Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.
Exploring proteomes and analyzing protein processing by mass spectrometric identification of sorted N-terminal peptides. Gevaert K, et al. Nat Biotechnol, 2003 May. PMID 12665801.
Developmentally regulated expression of calponin isoforms and the effect of h2-calponin on cell proliferation. Hossain MM, et al. Am J Physiol Cell Physiol, 2003 Jan. PMID 12388067.
The DNA sequence of human chromosome 21. Hattori M, et al. Nature, 2000 May 18. PMID

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