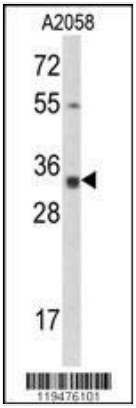
Calponin-3 (CNN3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

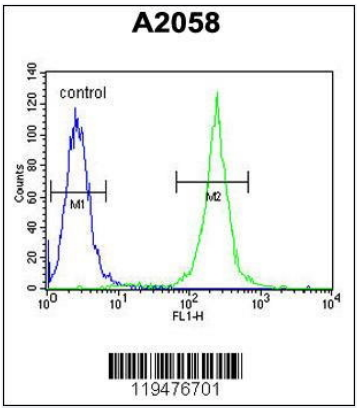
Product Name	Calponin-3 (CNN3), Polyclonal Antibody
Full Product Name	Calponin-3, NT (Calponin 3, Calponin, Acidic Isoform, CNN3)
Product Gene Name	anti-CNN3 antibody
Product Synonym Names	Anti -Calponin-3, NT (Calponin 3, Calponin, Acidic Isoform, CNN3)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Purified Purified by ammonium sulfate precipitation.
Specificity	Recognizes human Calponin 3.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,414 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (95362507..95392735, complement). Location: 1p22-p21
OMIM	602374
3D Structure	ModBase 3D Structure for Q15417
Immunogen	Synthetic peptide selected from the N-terminal region of human Calponin 3 (KLH).
Product Categories/Family for anti-CNN3 antibody	Antibodies; Abs to Cancer Markers
Applications Tested/Suitable for anti-CNN3 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-CNN3 antibody	Suitable for use in ELISA and Western Blot. Dilution: ELISA: 1:1,000 Western Blot: 1:50-1:100
Related Product Information for anti-CNN3 antibody	Calponin-3 is a protein with a markedly acidic C terminus; the basic N-terminus is highly homologous to the N-terminus of a related gene, CNN1. This protein is associated with the cytoskeleton but is not involved in contraction.
Other Notes	Small volumes of anti-CNN3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CNN3 purchase	MBS629871 is an antibody targeting CNN3. Also known as Calponin-3, NT (Calponin 3, Calponin, Acidic Isoform, CNN3). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CNN3 antibody
Western blot analysis of Calponin-3 Antibody (N-term) in A2058 cell line lysates (35ug/lane). Calponin-3 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-CNN3 antibody
Calponin-3 Antibody (N-term) IHC analysis in formalin fixed and paraffin embedded human skeletal muscle tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Calponin-3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-CNN3 antibody
Calponin-3 Antibody (N-term) flow cytometric analysis of A2058 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNN3. It may not necessarily be applicable to this product.

NCBI GI #	4502923
NCBI GeneID	1266
NCBI Accession #	NP_001830.1
UniProt Primary Accession #	Q15417
UniProt Related Accession #	Q15417; Q6FHA7; Q9BWY6
GenBank Nucleotide #	NM_001839.3
NCBI Official Full Name	calponin-3
NCBI Official Synonym Full Names	calponin 3, acidic
NCBI Official Symbol	CNN3
UniProt Protein Name	Calponin-3
UniProt Synonym Protein Names	Calponin, acidic isoform
Protein Family	Calponin
UniProt Gene Name	CNN3

UniProt Entry Name	CNN3_HUMAN
NCBI Protein Information	calponin-3; OTTHUMP00000012470; OTTHUMP00000012471; calponin, acidic isoform; dJ639P13.2.2 (acidic calponin 3)
NCBI Summary for CNN3	This gene encodes a protein with a markedly acidic C terminus; the basic N-terminus is highly homologous to the N-terminus of a related gene, CNN1. Members of the CNN gene family all contain similar tandemly repeated motifs. This encoded protein is associated with the cytoskeleton but is not involved in contraction. [provided by RefSeq]
UniProt Comments for CNN3	calponin 3: 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. Belongs to the calponin family. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1p22-p21 Cellular Component: focal adhesion; cytoplasm; actin cytoskeleton Molecular Function: calmodulin binding; actin binding Biological Process: epithelial cell differentiation; actomyosin structure organization and biogenesis
Research Articles on CNN3	**1.** Results indicate that CNN3 regulates actin cytoskeleton rearrangement which is required for the plasma membranes of trophoblasts to become fusion competent.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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