

Rabbit Calponin-1 Polyclonal Antibody | anti-CNN1 antibody

Calponin-1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286986	Rabbit	Reacts with: Human Predicted Reactivity: Mouse, Rat, Bovine	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

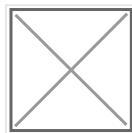
PRODUCT SYNONYMS

Calponin-1; Polyclonal Antibody; Calponin-1 Antibody (N-term); Basic calponin; Calponin H1; smooth muscle; CNN1; anti-CNN1 antibody

PRODUCT SPECIFICATIONS

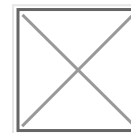
Host	Rabbit
Reactivity	Reacts with: Human Predicted Reactivity: Mouse, Rat, Bovine
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Calponin-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from the N-terminal region of human Calponin-1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	10-39
Sequence Length	297
Applicable Applications for anti-CNN1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	Human
Tissue Location	Smooth muscle, and tissues containing significant amounts of smooth muscle.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of NCI-H292 cells using Calponin-1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human lung carcinoma with Calponin-1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**WB (Western Blot)**

Western blot analysis of Calponin-1 Antibody (N-term) in NCI-H460 cell line lysates (35ug/lane). CNN1 (arrow) was detected using the purified Pab.

**WB (Western Blot)**

Western blot analysis of lysates from Hela, MDA-MB-453 cell line (from left to right), using Calponin-1 Antibody (N-term). AAA286986 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-CNN1 antibody	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 (By similarity).
Product Categories/Family for anti-CNN1 antibody	Cardiovascular ; Signal Transduction
References	Marsh,W.L., et.al., Appl. Immunohistochem. Mol. Morphol. 17 (3), 216-219 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361120
NCBI GeneID	1264
NCBI Accession #	NP_001290.2
NCBI GenBank Nucleotide #	NM_001299.5
UniProt Accession #	P51911; O00638; Q15416; Q8IY93; Q99438; B2R868; B4DUX6
Molecular Weight	33170
NCBI Official Full Name	calponin-1 isoform 1
NCBI Official Synonym Full Names	calponin 1, basic, smooth muscle
NCBI Official Symbol	CNN1
NCBI Official Synonym Symbols	SMCC; Sm-Calp; HEL-S-14
NCBI Protein Information	calponin-1
UniProt Protein Name	Calponin-1
UniProt Gene Name	CNN1
UniProt Entry Name	CNN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calponin-1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/286986>