Mouse anti-Human, Rat Calponin-1 Monoclonal Antibody | anti-CNN1 antibody

Calponin-1 (Smooth Muscle Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62692	**Mouse**	**Human, Rat**	**Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

Calponin-1; Monoclonal Antibody; Calponin-1 (Smooth Muscle Marker) Mouse Monoclonal Antibody; Calponin 1 basic smooth muscle; Calponin H1 smooth muscle; CNN1; Cnn1; Sm Calp; SMCC; anti-CNN1 antibody

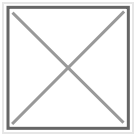
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CNN1/832
Specificity	Multiple isoelectric variants of calponin have been identified, however only two molecular weight isoforms exist; a 34kDa form and a 29kDa form. Expression of the 29kDa form, I-calponin, is primarily restricted to muscle of the urogenital tract, whereas the higher molecular weight variant has been demonstrated in vascular and visceral smooth muscle. In Western blotting, this MAb reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin. Calponin is a calmodulin, F-actin and tropomyosin binding protein, which is thought to be involved in the regulation of smooth muscle contraction. Calponin expression is restricted to smooth muscle cells and has been shown to be a marker of the differentiated (contractile) phenotype of developing smooth muscle.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	297
Applicable Applications for anti-CNN1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic
Immunogen	Recombinant human CNN1 protein
Hu-Chromosome Location	19p13.2
Positive Control	Myoepithelial cells in breast ducts
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded Rat Uterus stained with Calponin-1 Monoclonal Antibody (CNN1/832).

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Uterus stained with Calponin-1 Monoclonal Antibody (CNN1/832).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Calponin-1 Monoclonal Antibody (CNN1/832).

ADDITIONAL INFORMATION

References	Tang, D.C., et al. 1996. Structure-function relations of smooth muscle Calponin. The critical role of Serine 175. J. Biol. Chem. 271: 8605-8611.

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	34kDa
NCBI Official Full Name	calponin-1 isoform 1
NCBI Official Synonym Full Names	calponin 1
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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