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Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 (Concentrate)

Availability/Contents:	Item # Volume RA0100-C.5 0.5 ml
Description:	
Species: Immunogen: Clone: Isotype: Entrez Gene ID:	Mouse Recombinant human CNN1 protein CNN1/832 IgG1, kappa 1264 (Human); 65204 (Rat)
Hu Chromosome Loc.: Synonyms:	19p13.2 Calponin 1 basic smooth muscle; Calponin H1 smooth muscle; Calponin-1; CNN1; Cnn1; Sm Calp; SMCC
Mol. Weight of Antigen: Format:	34kDa 200μg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	In Western blotting, this antibody 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.
Background:	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. 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.
Species Reactivity: Positive Control: Cellular Localization: Titer/ Working Dilution:	Human and Rat. Others not known.Myoepithelial cells in breast ducts.CytoplasmicImmunohistochemistry (Frozen and Formalin-fixed):0.5-1 μg/million cellsFlow Cytometry:0.5-1 μg/million cellsImmunofluorescence:1-2 μg/mlWestern Blotting:0.5-1 μg/mlImmunoprecipitation:1-2 μg/500μg protein lysate
Microbiological State:	This product is not sterile.





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Instructions For Use RA0100-C.5-IFU-RUO

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Uses/Limitations:

Not to be taken internally. For Research Use Only. This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Do not use if reagent becomes cloudy. Do not use past expiration date. Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

- 1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with EDTA Buffer (10X) HIER Solution (pH 8.0) (ScyTek catalog# ETA).
- Primary Antibody Incubation Time: We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- 3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

 Precautions:
 Contains Sodium Azide as a preservative (0.09% w/v).

 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.

 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

- 1. 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.
- Warranty: No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.





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