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12-1001: Recombinant Mouse Monoclonal Antibody to Calponin-1 (Smooth Muscle Marker) (Clone: rCNN1/832)

Clonality: Monoclonal
Clone Name: rCNN1/832
Application: WB,FACS,IHC
Reactivity: Human, Rat

Gene: CNN1
Gene ID: 1264
Uniprot ID: P51911
Format: Purified

Alternative Name: Calponin 1 basic smooth muscle, Calponin H1 smooth muscle, Calponin-1, CNN1, Cnn1, Sm

Calp, SMCC

Isotype: Mouse IgG1, kappa

Immunogen Information : Recombinant full-length human CNN1 protein

Description

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.

Product Info

Amount: $20 \mu g / 100 \mu g$

Purification: Purified Ab with BSA and Azide at 200ug/ml

Content: 200ug/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA &

0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition : Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western Blot (1-2Ã[Âμg/ml); Flow Cytometry (1-2Ã[Âμg/million cells); Immunohistochemistry (Formalin-fixed) (1-2Ã[Âμg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95°C followed by cooling at RT for 20 minutes)



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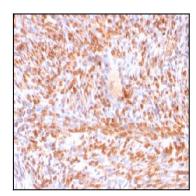


Figure 1: Formalin-fixed, paraffin-embedded human Uterus stained with Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).

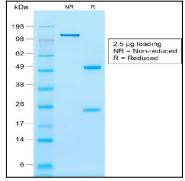


Figure 2: SDS-PAGE Analysis of Purified Calponin-1 Recombinant Mouse Monoclonal Antibody (rCNN1/832).