Calponin-1 (Smooth Muscle Marker) Antibody

Catalog No	Format	Size
1264-RBP5-P0	Purified Ab with BSA and Azide	200ug/ml
1264-RBP5-P1	Purified Ab with BSA and Azide	200ug/ml
1264-RBP5-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

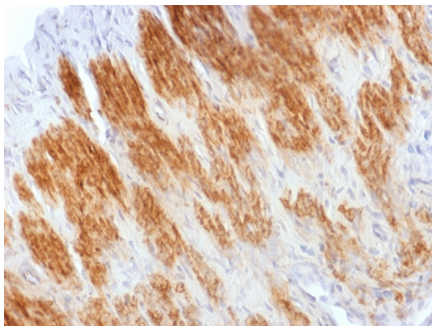
Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml

Product Details

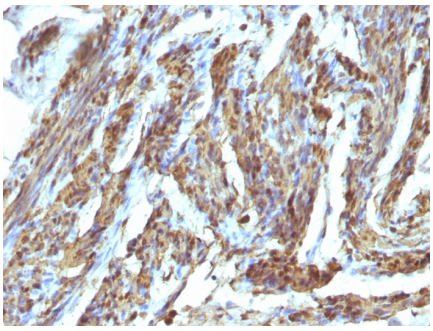
Gene Name	CNN1
Immunogen	Recombinant human CNN1 protein
Host	Rabbit
Clonality	Polyclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	34kDa
Species Reactivity	Human, Rat
Positive Control	Myoepithelial cells in breast ducts.

**Optimal dilution for a specific application should be determined.*

Product Images for Calponin-1 (Smooth Muscle Marker) Antibody



Formalin-fixed, paraffin-embedded Rat Uterus stained with Calponin Rabbit Polyclonal Antibody



Formalin-fixed, paraffin-embedded human Uterus stained with Calponin Rabbit Polyclonal Antibody

Specificity & Comments

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 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. 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.

Research Areas

Cardiovascular, Mesenchymal Stem Cell Differentiation

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Immunofluorescence (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/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&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Supplied As

200ug/ml of Ab 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 and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.