

Monoclonal Antibody to Calponin

Catalog No.:	DM345P
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Calponin, a calmodulin, binds tropomyosin and F-actin and is thought to be involved in the regulation of smooth muscle contraction. The expression of calponin is restricted to smooth muscle cells and is a marker of the differentiated contractile phenotype of developing smooth muscle. Two isoforms of calponin exist whose molecular weights are 34 kD and 29 kD. Expression of the 29 kD form is primarily restricted to muscle of the urogenital tract. The expression of calponin has also been demonstrated in myoepithelial cells from benign and malignant breast lesions.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	CALP
Immunogen:	Crude Human Uterus extract Epitope not determined. Remarks: Molecular weight of antigen 34 kD
Format:	State: Liquid Ig fraction Purification: Protein G affinity chromatography Buffer System: 10 mM PBS, pH 7.4, containing 0.09% sodium azide as preservative and 0.2% BSA as stabilizer
Applications:	Immunohistology (Formalin/paraffin): use at 0.5-1.0 µg/ml for 30 min at RT. Staining of formalin-fixed tissues requires digestion of tissue sections with trypsin at 1 mg/ml Tris-HCl, pH 7.4, for 10-15 min at RT, followed by boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Recommended positive control: myoepithelial cells in breast ducts. Cellular localization: cytoplasmic Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Calponin Species: Human, rat Other species not tested.
Storage:	Store the antibody at 4°C. Do not freeze!