

**Rabbit Anti-Calponin [MD130R]: RM0015, RM0015RTU7**

**Intended Use:** For Research Use Only

**Description:** Calponin is a smooth muscle specific, actin-, tropomyosin- and calmodulin-binding protein thought to be involved in regulation of actomyosin as well as the regulation or modulation of contraction. It is expressed on smooth muscle cells and myoepithelial cells. Calponin has been used to identify invasion of breast lesion. Additionally, Calponin is expressed on malignant fibrous histiocytoma of bone and adenoid cystic carcinoma of salivary gland. The consistently positive staining pattern in adenoid cystic carcinomas may be useful in discriminating histologically similar but consistently negative polymorphous low-grade adenocarcinomas

**Specifications:**

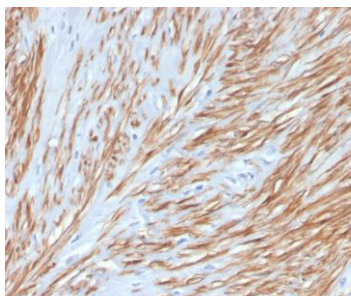
Clone: MD130R  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Immunogen: Synthetic peptide corresponding to residues on the C-terminus of human Calponin  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC  
Package:

Description	Catalog No.	Size
Calponin Concentrated	RM0015	1 ml
Calponin Prediluted	RM0015RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Uterus  
Concentrated Dilution: 50-200  
Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human leiomyosarcoma stained with anti-Calponin using DAB

**References:**

1. Phenotypic and Functional Changes of Endothelial and Smooth Muscle Cells in Thoracic Aortic Aneurysms. Malashicheva A, et al. Int J Vasc Med 2016;3107879, 2016.
2. Activation of the Wnt/planar cell polarity pathway is required for pericyte recruitment during pulmonary angiogenesis. Yuan K, et al. Am J Pathol 185:69-84, 2015.
3. Resident phenotypically modulated vascular smooth muscle cells in healthy human arteries. Harhun MI, et al. Cell Mol Med 16:2802-12, 2012.