

**Mouse Anti-Calponin [CALP]: MC0033, MC0033RTU7**

**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:**

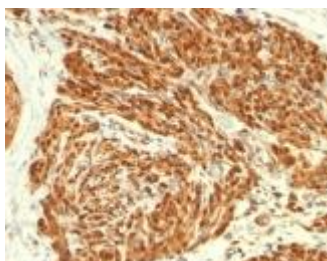
Clone: CALP  
Source: Mouse  
Isotype: IgG1k  
Reactivity: Human, rat  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt., ICC/IF  
Package:

Description	Catalog No.	Size
Calponin Concentrated	MC0033	1 ml
Calponin Prediluted	MC0033RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Uterus  
Concentrated Dilution: 50-200  
Pretreatment: 10mM Tris with 1mM EDTA, pH 9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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 uterus stained with Calponin [CALP] 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.