

## Product datasheet

# Anti-Calponin antibody [CALP] ab700

★★★★★ 3 Abreviews 14 References 画像数 2

### 製品の概要

製品名	Anti-Calponin antibody [CALP]
製品の詳細	Mouse monoclonal [CALP] to Calponin
由来種	Mouse
アプリケーション	<b>適用あり:</b> IHC-Fr, Flow Cyt, ICC/IF, IHC-FoFr, IHC-P
種交差性	<b>交差種:</b> Rat, Human
免疫原	Crude human uterus extract
ポジティブ・コントロール	Myoepithelium in normal breast glands.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: Proprietary, not sodium azide or thimerosal. Constituents: PBS, Tissue Culture Supernatant. pH 7.3, Protein carrier.
ポリモノ	モノクローナル
クローン名	CALP
ミエローマ	unknown
アイソタイプ	IgG1
軽鎖の種類	kappa

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab700** in the following tested applications.

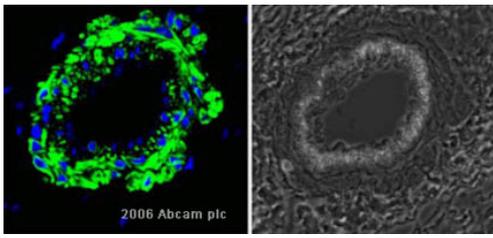
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-Fr		1/100 - 1/400. ABC system. 30mins at RT. Calponin has been found to be useful as a marker for myoepithelial and basal lamina in differentiating microinvasive from in situ ductal carcinomas of the breast. Calponin has also been useful in malignant myoepithelium and pleomorphic adenoma of salivary gland as well as a useful marker for fine needle aspirates of papillary breast lesions.
Flow Cyt		Use at an assay dependent concentration. PubMed: 20618694 <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★	Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 20138661
IHC-P	★★★★★	1/100 - 1/400. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. ABC system. 30mins at RT.

## ターゲット情報

機能	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.
組織特異性	Smooth muscle, and tissues containing significant amounts of smooth muscle.
配列類似性	Belongs to the calponin family. Contains 3 calponin-like repeats. Contains 1 CH (calponin-homology) domain.

## 画像

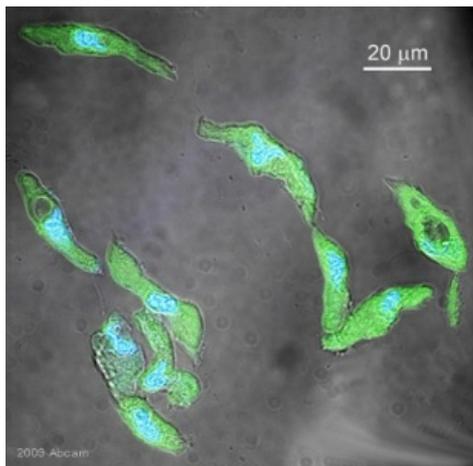


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calponin antibody

[CALP] (ab700)

This image is courtesy of an Abreview submitted by Dr Mal Niladri

ab700 at a 1/50 dilution staining rat heart tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). The tissue was formaldehyde fixed prior to incubation with the antibody overnight at 4°C. An Alex-Fluor® 488 conjugated goat anti-mouse antibody was used as the secondary. The image was taken with a confocal laser scanning microscope with an additional Differential Interference Contrast (DIC) mode and shows stained Calponin (smooth muscle cells-green) and counterstained nuclei (DAPI-blue) (left panel). DIC (phase) image of the same tissue (right panel) confirm the localization of the calponin staining in the arterial smooth muscle in the heart tissue with very little background.



Immunocytochemistry/ Immunofluorescence - Anti-Calponin antibody [CALP] (ab700)

This image is a courtesy of Anonymous Abreview

ab700 staining Calponin in rat Smooth muscle cells from mesenteric artery by Immunocytochemistry/ Immunofluorescence. Cells were fixed with 4% paraformaldehyde in physiological saline solution (PSS) for 4 min at 4°C and permeabilized with 0.3% Triton x100 before blocking with 2% BSA was done for 30 minutes at 20°C. Samples were incubated with primary antibody (1/300: in PSS with 2% BSA and 0.3% Triton X-100) for 14 hours at 4°C. An Alexa Fluor®488-conjugated chicken polyclonal to mouse IgG was used as secondary antibody at 1/400 dilution. Image shows combined fluorescent and transmitted light images. Hoechst 33342 was used to stain the cell nuclei (blue).

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