

钙结合蛋白 Calponin 抗体

产品货号： mIR4902

英文名称： Calponin 1 + 2 + 3

中文名称： 钙结合蛋白 Calponin 抗体

别名： smooth muscle; Basic calponin; Calponin 1; Calponin 2; Calponin 3; Calponin1; Calponin2; Calponin3; Calponin-1; Calponin-2; Calponin-3; Calponin 1 basic smooth muscle; Calponin H1; Calponin H1 smooth muscle; Calponins basic; CNN 1; Cnn1; CNN2_HUMAN; Sm Calp; SMCC.

研究领域： 心血管 细胞生物 信号转导 干细胞 结合蛋白 细胞骨架

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Cow, Horse,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1μg/Test IF=1:50-200 IEM=1:20-200
IGS=1:20-200 GICA=1:20-200 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量 : 34kDa

细胞定位 : 细胞浆 细胞膜 细胞外基质 分泌型蛋白

性 状 : Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human Calponin 1/2/3:101-200/309

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍： Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-Actin and inhibition of the Actin-activated MgATPase activity of phosphorylated myosin. Both properties are lost following phosphorylation (primarily at Serine 175) by protein kinase C or calmodulin-dependent protein kinase II. The three forms of Calponin, Calponin 1 (basic Calponin), Calponin 2 (neutral Calponin) and Calponin 3 (acidic Calponin) are found in smooth muscle tissue. Additionally, Calponin 2 is found in heart muscle tissue and Calponin 3 is found in the brain.

Function:

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.

Tissue Specificity:

Heart and smooth muscle.

Similarity:

Belongs to the calponin family.

Contains 3 calponin-like repeats.

Contains 1 CH (calponin-homology) domain.

SWISS:

P51911

Gene ID:

1265

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

