



Rabbit Anti-Calponin 1 antibody

SL0095R

Product Name:	Calponin 1
Chinese Name:	钙调节蛋白-1抗体
Alias:	Basic calponin; Calponin 1; Calponin-1; Calponin 1 basic smooth muscle; Calponin H1 smooth muscle; Calponin1; Calponins basic; CNN 1; CNN1; Sm Calp; SMCC; CNN1_HUMAN; Calponin H1; Calponin1; Sm Calp; smooth muscle.
文献引用 PubMed :	<p>Specific References(4) SL0095R has been referenced in 4 publications.</p> <p>[IF=4.07]Syedain, Zeeshan, et al. ?Implantation of Completely Biological Engineered Grafts Following Decellularization into the Sheep Femoral Artery.? Tissue Engineering (2014).IHC-F;Sheep. PubMed:24417686</p> <p>[IF=4.75]Zhao, Yuechao, et al. "Estrogen-Induced CCN1 is Critical for Establishment of Endometriosis-like Lesions in Mice." Molecular Endocrinology (2014).IHC-P;Mouse. PubMed:25321413</p> <p>[IF=2.30]Cai, Jinghua, et al. "Regulation of tumorigenesis in oral epithelial cells by defined reprogramming factors Oct4 and Sox2." Oncology ReportsIHC-P;Mouse. PubMed:27279579</p> <p>[IF=1.83]HAYASHI, TAKUMA, et al. "Characterization of Leiomyomatoid Angiomatous Neuroendocrine Tumour (LANT)-like Tumour in the Myometrium with Histopathological Examination." Anticancer Research 37.4 (2017): 1765-1772.IHC;Human. PubMed:28373439</p>
Organism Species:	Rabbit
Clonality:	Polyclonal

React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Sheep,
Applications:	WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Calponin 1:201-297/297
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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
Product Detail:	<p>Calponin, a calmodulin, is a 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. Calponin is expressed in smooth muscle and tissues containing significant amounts of smooth muscle. Two isoforms of calponin exist whose molecular weights are 34kDa and 29kDa. Expression of the 29kDa 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.</p> <p>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 (By similarity).</p> <p>Subunit: Part of cGMP kinase signaling complex at least composed of ACTA2/alpha-actin, CNN1/calponin H1, PLN/phospholamban, PRKG1 and ITPR1.</p> <p>Tissue Specificity: Smooth muscle, and tissues containing significant amounts of smooth muscle.</p> <p>Similarity: Belongs to the calponin family. Contains 3 calponin-like repeats. Contains 1 CH (calponin-homology) domain.</p> <p>SWISS: P51911</p>

Gene ID:
1264

Database links:

[Entrez Gene: 1264](#)Human

[Entrez Gene: 484937](#)Dog

[Entrez Gene: 12797](#)Mouse

[Entrez Gene: 396911](#)Pig

[Entrez Gene: 65204](#)Rat

[Omin: 600806](#)Human

[SwissProt: P51911](#)Human

[SwissProt: Q08091](#)Mouse

[SwissProt: Q08092](#)Pig

[SwissProt: Q08290](#)Rat

[Unigene: 465929](#)Human

[Unigene: 4356](#)Mouse

[Unigene: 31788](#)Rat

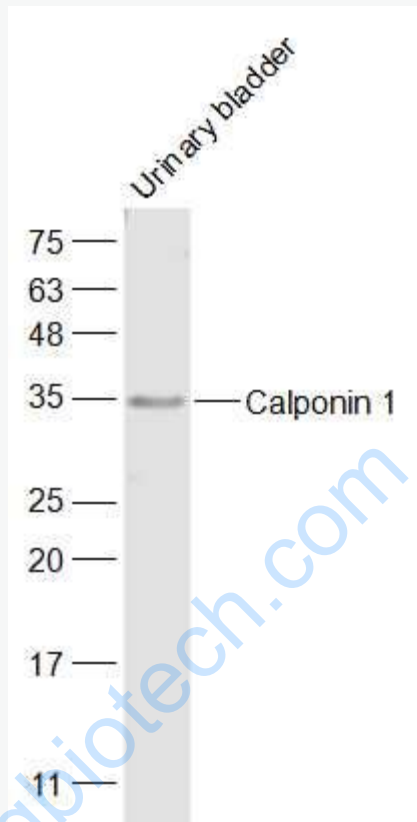
Important Note:

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

Calponin1是一种激动蛋白Binding

protein, 是平滑肌特有的一种蛋白, 可以与肌动蛋白、原肌球蛋白和钙调素结合, 具有抑制平滑肌细胞收缩的功能, 主要用于平滑肌Tumour和乳腺等组织中的肌epithelial cells分布的研究。

Picture:



Sample:

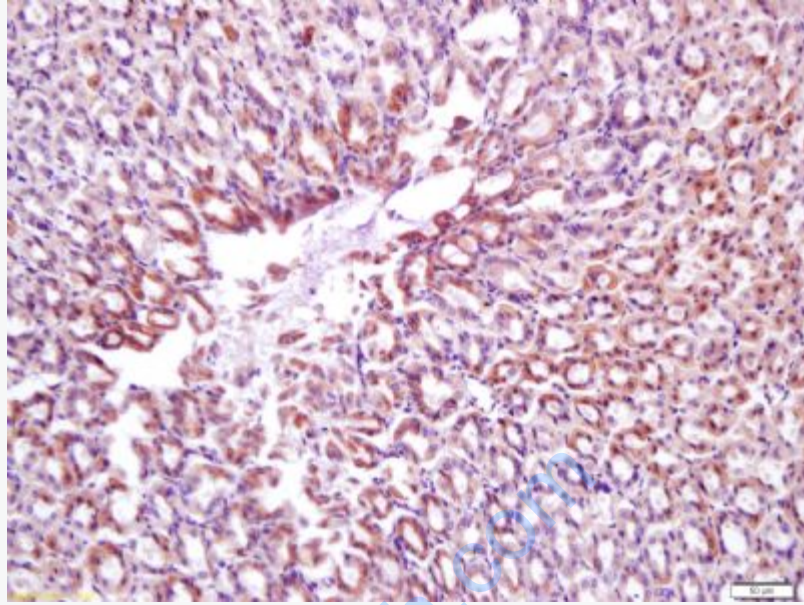
Urinary bladder (Mouse) Lysate at 40 ug

Primary: Anti-Calponin 1 (SL0095R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

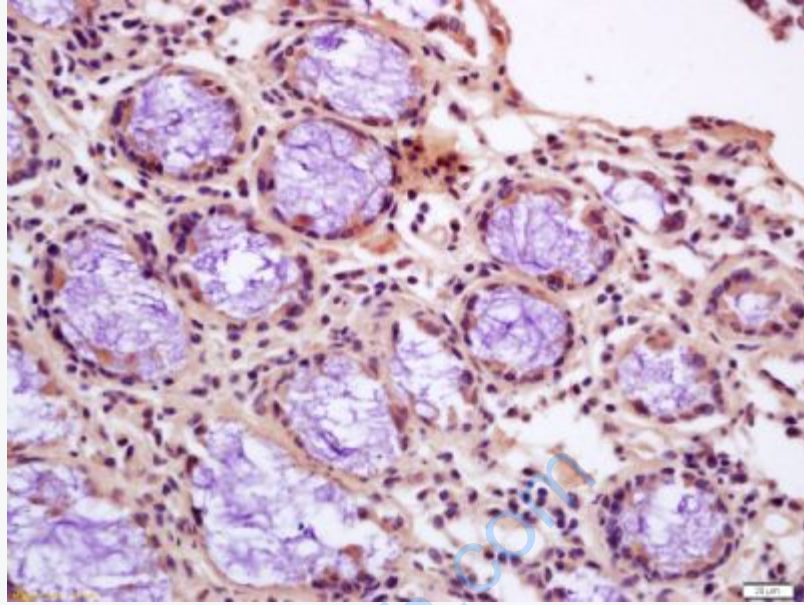
Observed band size: 33 kD



Tissue/cell: mouse stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

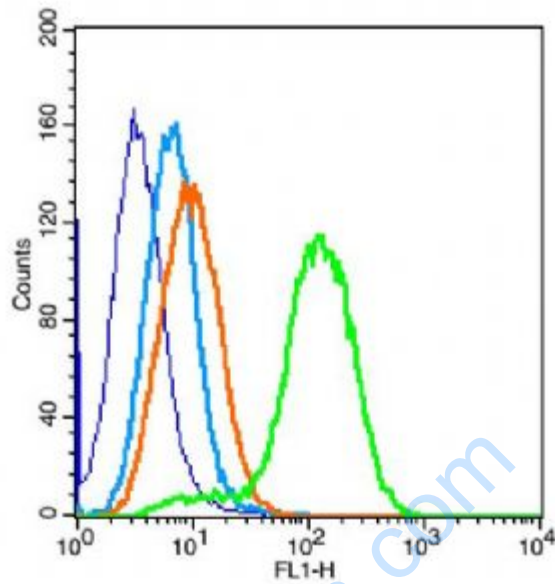
Incubation: Anti-Calponin 1 Polyclonal Antibody, Unconjugated(SL0095R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Calponin 1 Polyclonal Antibody, Unconjugated(SL0095R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Key	Name	Parameter	Gate
—	H9C2-blank.039	FL1-H	G1
—	bs-0295G-FITC(CST)-H9C2-1.040	FL1-H	G1
—	bs-0295P-FITC)-H9C2-1.041	FL1-H	G1
—	bs-0095R-FITC)-H9C2-1.047	FL1-H	G1

Positive control: H9C2(2% Paraformaldehyde-fixed)

Isotype Control Antibody

Antibody: Rabbit IgG; Dilution: 1 μ g in 100 μ l 1 X PBS containing 0.5% BSA

Secondary Antibody

Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5%

BSA

Primary Antibody

Supplier catalog number: bs-0095R; Dilution: 1 μ g in 100 μ l 1X PBS containing

0.5% BSA