

## Calponin-1 (R3490) Rabbit mAb

CatalogNo: AR0407 **Recombinant FSS™**

### •Main information

<b>Target</b>	Calponin-1
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,ELISA
<b>MW (kDa)</b>	33kD (Calculated) 33kD (Observed)
<b>Host Species</b>	Rabbit
<b>Isotype</b>	IgG,Kappa

### •Recommended Dilutions

IHC 1:200-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)

### •Detailed information

<b>Specificity</b>	Endogenous
<b>Storage</b>	-15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag)
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Purification</b>	Protein A
<b>Clonality</b>	Monoclonal
<b>Clone Number</b>	R3490

### •Target Information

**Gene name** CNN1

**Protein Name** Calponin-1

#### Organism

#### Gene ID

#### UniProt ID

Human

[1264;](#)

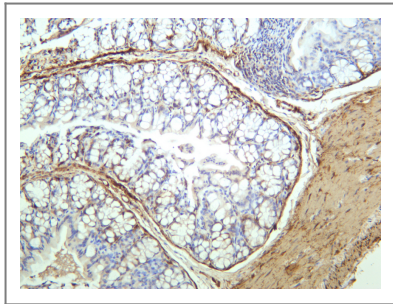
[P51911;](#)

**Cellular Localization** Cytoplasm

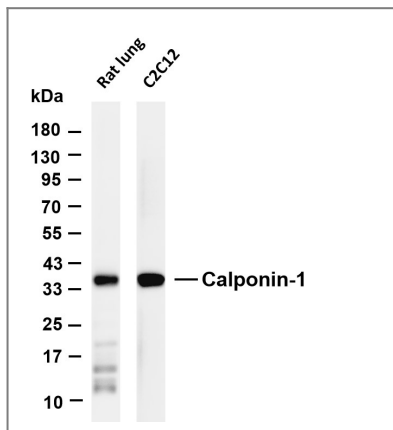
**Tissue specificity** Smooth muscle, and tissues containing significant amounts of smooth muscle.

**Function** 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.,similarity:Belongs to the calponin family.,similarity:Contains 1 CH (calponin-homology) domain.,similarity:Contains 3 calponin-like repeats.,subunit:Part of cGMP kinase signaling complex at least composed of ACTA2/alpha-actin, CNN1/calponin H1, PLN/phospholamban, PRKG1 and ITPR1.,tissue specificity:Smooth muscle, and tissues containing significant amounts of smooth muscle.,

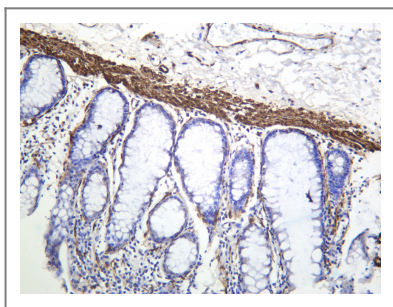
## •Validation Data



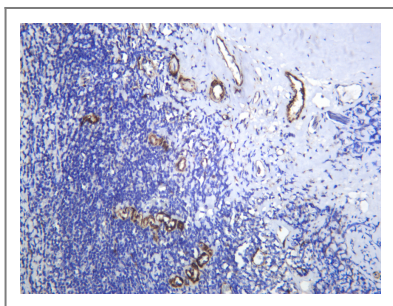
Mouse colon was stained with anti-Calponin-1 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Calponin-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat lung Lane 2: C2C12 Predicted band size: 33kDa Observed band size: 33kDa



Human colon was stained with anti-Calponin-1 Rabbit antibody



Human tonsil was stained with anti-Calponin-1 Rabbit antibody

## •Contact information

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Please scan the QR code to access additional product information:  
**Calponin-1 (R3490)**  
**Rabbit mAb**

