

For Research Use Only

# Calponin Monoclonal antibody

Catalog Number: 66540-1-Ig



## Basic Information

<b>Catalog Number:</b> 66540-1-Ig	<b>GenBank Accession Number:</b> BC022015	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1800 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1264	<b>CloneNo.:</b> 1A11E5
<b>Source:</b> Mouse	<b>Full Name:</b> calponin 1, basic, smooth muscle	<b>Recommended Dilutions:</b> WB 1:1500-1:6000 IHC 1:150-1:600
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 33 kDa	
<b>Immunogen Catalog Number:</b> AG21384	<b>Observed MW:</b> 33-35 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

**WB:** human heart tissue, human vein tissue, human  
colon tissue, human ileum tissue, human bladder  
tissue, human kidney tissue

**IHC:** human myofibroblastoma tissue,

## Background Information

Calponin is a family of actin filament-associated proteins which regulate smooth muscle cell contraction. Three isoforms of calponin exist: calponin h1 (CNN1), calponin h2 (CNN2) and calponin 3 (CNN3). CNN1 is a basic 34-kD protein specifically expressed in smooth muscle and a marker of smooth muscle cell differentiation. This antibody raised against the specific region of human CNN1, thus it does not cross-react with CNN2 or CNN3.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

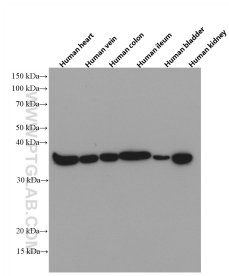
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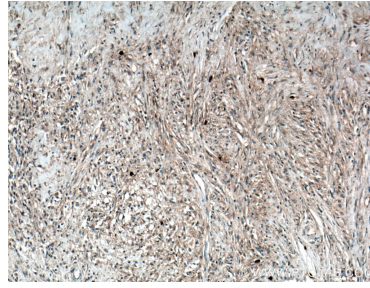
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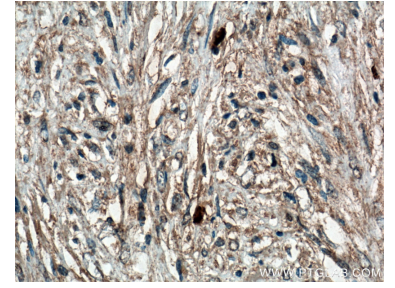
## Selected Validation Data



Various tissue were subjected to SDS PAGE followed by western blot with 66540-1-Ig (Calponin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human myofibroblastoma tissue slide using 66540-1-Ig (Calponin antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human myofibroblastoma tissue slide using 66540-1-Ig (Calponin antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).