

For Research Use Only

# Calponin Monoclonal antibody

Catalog Number: 66540-1-Ig **2 Publications**



## Basic Information

Catalog Number: 66540-1-Ig	GenBank Accession Number: BC022015	Purification Method: Protein A purification
Concentration: 1800 µg/ml	GeneID (NCBI): 1264	CloneNo.: 1A11E5
Source: Mouse	UNIPROT ID: P51911	Recommended Dilutions: WB 1:1500-1:6000 IHC 1:150-1:600
Isotype: IgG2b	Full Name: calponin 1, basic, smooth muscle	
Immunogen Catalog Number: AG21384	Calculated MW: 33 kDa Observed MW: 33-35 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : human heart tissue, human vein tissue, human colon tissue, human ileum tissue, human bladder tissue, human kidney tissue
Species Specificity: Human	IHC : human myofibroblastoma tissue,
Cited Species: mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
June Bai	39914785	Eur J Pharmacol	WB
Jing Yang	39866893	World J Stem Cells	WB,IF

## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

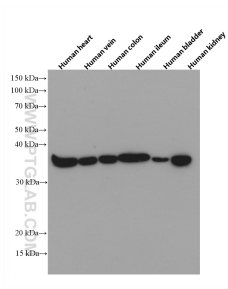
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

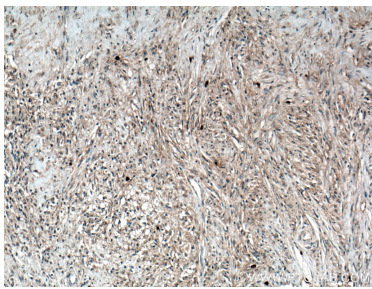
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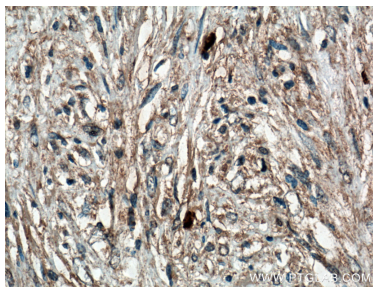
Selected Validation Data



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).