

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
Size: 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	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	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

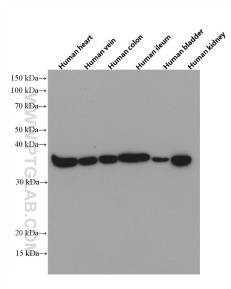
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

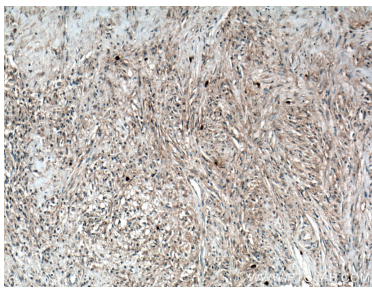
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

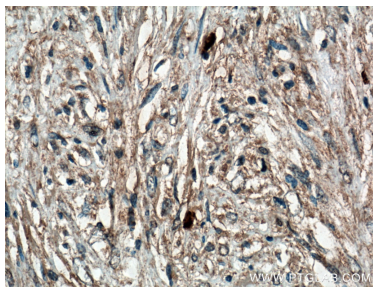
Selected Validation Data



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).