

For Research Use Only

Calponin Monoclonal antibody, PBS Only (Detector)



Catalog Number: 66540-1-PBS

Basic Information

Catalog Number: 66540-1-PBS	GenBank Accession Number: BC022015	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 1264	CloneNo.: 1A11E5
Source: Mouse	UNIPROT ID: P51911	
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, Sandwich ELISA, Indirect ELISA

Species Specificity:
Human

Product Information

66540-1-PBS targets Calponin as part of a matched antibody pair:

MP50017-1: 66540-2-PBS capture and 66540-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

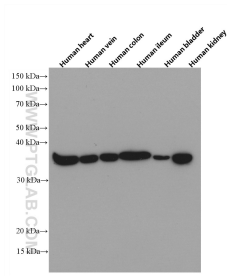
Storage:
Store at -80°C.

Storage Buffer:
100% PBS pH 7.3

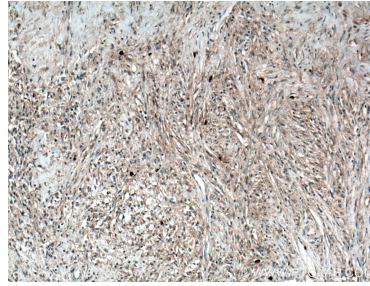
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

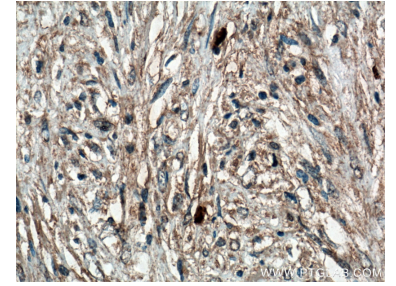
Selected Validation Data



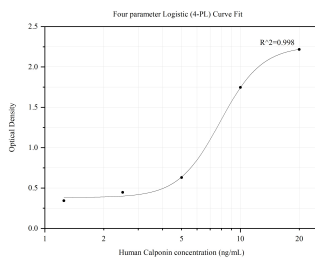
Various tissue were subjected to SDS PAGE followed by western blot with 66540-1-Ig (Calponin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66540-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66540-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66540-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50017-1, Calponin Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66540-2-PBS. Detection antibody: HRP-conjugated 66540-1-PBS. Standard: Ag21384. Range: 0.313-20 ng/mL.