

For Research Use Only

# Profilin 1 Monoclonal antibody

Catalog Number: 67390-1-Ig

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 67390-1-Ig	<b>GenBank Accession Number:</b> BC006768	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5216	<b>CloneNo.:</b> 3A12E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P07737	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:4000-1:16000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2b	<b>Full Name:</b> profilin 1	
<b>Immunogen Catalog Number:</b> AG29206	<b>Calculated MW:</b> 140 aa, 15 kDa	
	<b>Observed MW:</b> 13 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
WB, IP, IF

**Species Specificity:**  
Human, Mouse, Rat

**Cited Species:**  
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 :** LNCaP cells, HAP1, HSC-T6 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, Neuro-2a cells

**IHC :** human colon cancer tissue,

**IF/ICC :** HeLa cells, HAP1 cells

## Background Information

Profilin-1 (PFN1) plays an important role in the control of actin dynamics, and could represent an important therapeutic target in several diseases. PFN1 is identified as a huntingtin aggregation inhibitor, and may serve as a tumor-suppressor. PFN1 is crucial for the conversion of monomeric (G)-actin to filamentous (F)-actin. Amyotrophic lateral sclerosis (ALS) is a late-onset neurodegenerative disorder resulting from motor neuron death. Cells expressing PFN1 mutants contain ubiquitinated, insoluble aggregates that in many cases contain the ALS-associated protein TDP-43. Recently, PFN1 is a potential biomarker for bladder cancer aggressiveness and may be of great clinical importance.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yutaka Ogawa	34934922	iScience	WB,IF
Liping Mai	37323855	Diabetes Metab Syndr Obes	WB
Riham Ayoubi	37576538	F1000Res	WB,IF,IP

## 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

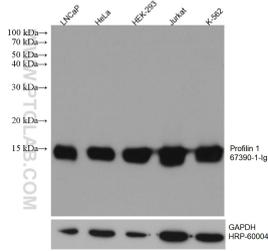
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

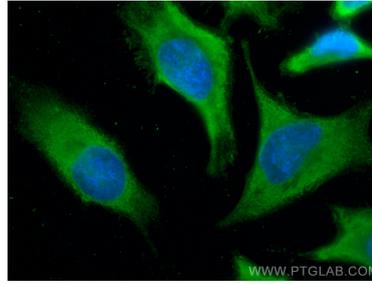
E: proteintech@ptglab.com  
W: ptglab.com

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

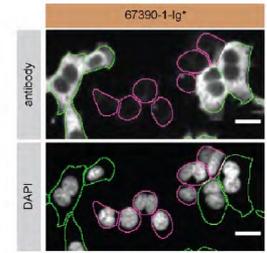
## Selected Validation Data



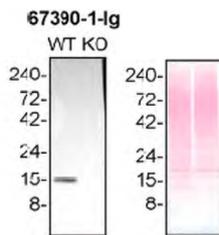
Various lysates were subjected to SDS PAGE followed by western blot with 67390-1-Ig (Profilin 1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



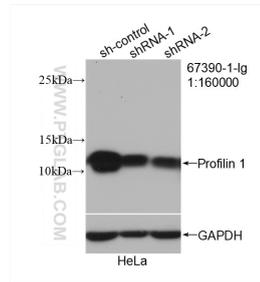
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Profilin 1 antibody (67390-1-Ig, Clone: 3A12E8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



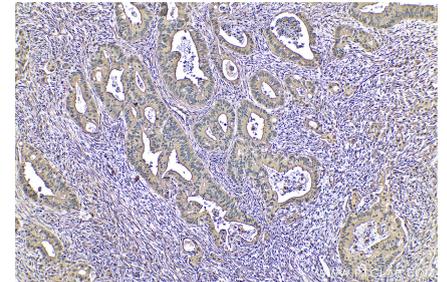
HAP1 WT cells (green outline) and PFN1 KO cells (magenta outline) labelled with a green or a far-red fluorescence dye, respectively. Cells with 4% PFA and stained with 67390-1-Ig at 1.0 µg/ml plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



HAP1 (WT and PFN1 KO) lysates prepared with NP-40 buffer, 50 µg protein loaded. 67390-1-Ig incubated at 1:30,000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



WB result of Profilin 1 antibody (67390-1-Ig; 1:160000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Profilin 1 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67390-1-Ig (Profilin 1 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).