

For Research Use Only

# Profilin 1 Polyclonal antibody

Catalog Number: 11680-1-AP

Featured Product

13 Publications



## Basic Information

### Catalog Number:

11680-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2286

### GenBank Accession Number:

BC006768

### GeneID (NCBI):

5216

### UNIPROT ID:

P07737

### Full Name:

profilin 1

### Calculated MW:

140 aa, 15 kDa

### Observed MW:

15 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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**

### Positive Controls:

WB : HeLa cells, NIH/3T3 cells, HAP1, Jurkat cells

IHC : human normal colon,

## 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 |
|------------|-----------|-----------------------|-------------|
| Bo Ma      | 30235220  | PLoS One              | WB          |
| Yu Lian    | 30326930  | J Exp Clin Cancer Res | WB          |
| Dayun Yang | 24818882  | Biomaterials          | WB          |

## 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:

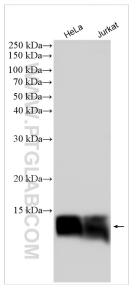
T: 4006900926

E: Proteintech-CN@ptglab.com

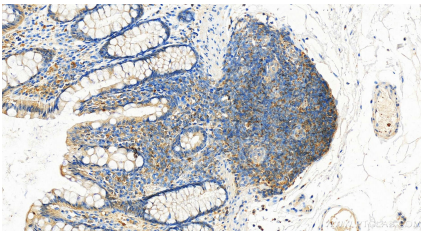
W: ptgcn.com

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

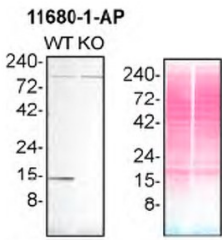
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11680-1-AP (Profilin 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 11680-1-AP (Profilin 1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HAP1 (WT and PFN1 KO) lysates prepared with NP-40 buffer, 50  $\mu$ g protein loaded. 11680-1-AP incubated at 1:6000 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.