

For Research Use Only

# Gelsolin Polyclonal antibody

Catalog Number: 11644-2-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

11644-2-AP

### Size:

650 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2239

### GenBank Accession Number:

BC026033

### GeneID (NCBI):

2934

### UNIPROT ID:

P06396

### Full Name:

gelsolin (amyloidosis, Finnish type)

### Calculated MW:

782 aa, 86 kDa

### Observed MW:

87-93 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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 : A549 cells, U2OS cells, HeLa cells

IHC : human colon cancer tissue, human colon tissue, human prostate cancer tissue

## Background Information

Gelsolin (GSN) is an actin binding protein that regulates actin-severing/depolymerizing in a calcium dependent manner, and acts as a multifunctional regulator for cell metabolism and survival. Gelsolin exists in two isoforms: a cytoplasmic gelsolin (cGSN; 80-90 kDa) and a plasma gelsolin (pGSN; 93 kDa), differing at N terminal residues. Decreased levels of pGSN are strongly associated with human diseases, such as, acute liver injury, major trauma, myocardial infarction, inflammation, lung injury, rheumatoid arthritis, hemodialysis, multiple sclerosis, Alzheimer's disease. Plasma gelsolin can interact with actin and form a complex of 130 kDa (PMID: 6330060, 3030756).

## Notable Publications

Author	Pubmed ID	Journal	Application
Moyuan Deng	32424991	Adv Healthc Mater	WB
Wu Jun J	23582786	Biomed Pharmacother	WB
Biao Deng	26149653	Gene	WB, IHC

## 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

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

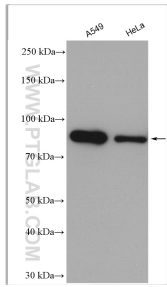
T: 4006900926

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

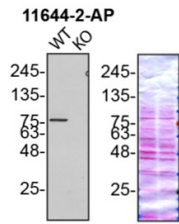
W: [ptgcn.com](http://ptgcn.com)

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

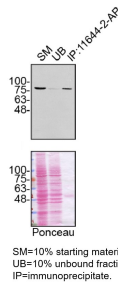
Selected Validation Data



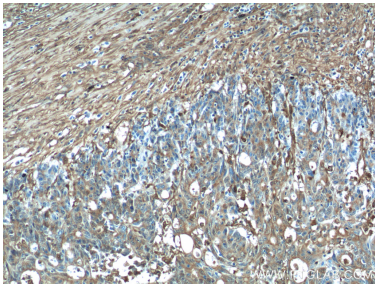
Various lysates were subjected to SDS PAGE followed by western blot with 11644-2-AP (Gelsolin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



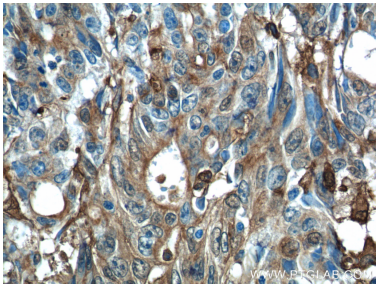
U2OS (WT and GSN KO) lysates prepared with RIPA buffer, 25  $\mu$ g protein loaded. 11644-2-AP incubated at 1:5000 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



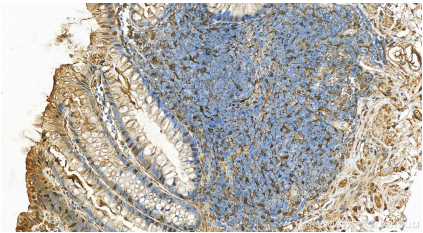
U2OS lysates prepared and IP of GSN performed using 1.0  $\mu$ g of 11644-2-AP coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11644-2-AP (Gelsolin Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11644-2-AP (Gelsolin Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 11644-2-AP (Gelsolin antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).