

For Research Use Only

# SPG7 Polyclonal antibody

Catalog Number: 27801-1-AP



## Basic Information

**Catalog Number:**

27801-1-AP

**Size:**

550 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG26265

**GenBank Accession Number:**

BC007692

**GeneID (NCBI):**

6687

**UNIPROT ID:**

Q9UQ90

**Full Name:**

spastic paraplegia 7 (pure and complicated autosomal recessive)

**Calculated MW:**

88 kDa

**Observed MW:**

54 kDa, 70 kDa, 80kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Species Specificity:**

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 : HeLa cells, HepG2 cells, LNCaP cells

IP : HeLa cells,

IHC : human liver tissue,

## Background Information

SPG7 encodes a nuclear-encoded mitochondrial metalloprotease protein that is a member of the AAA protein family. Two transcript variants encoding distinct isoforms have been identified. The molecular weight of SPG7 is about 88-100 kDa (precursor), 80 kDa (intermediate) and 70 kDa (mature)(PMID: 24767997), while the molecular weight of isoform 2 is about 54 kDa.

## 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:

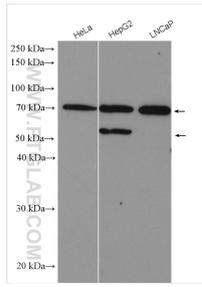
T: 4006900926

E: Proteintech-CN@ptglab.com

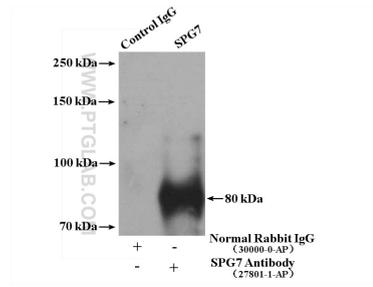
W: ptgcn.com

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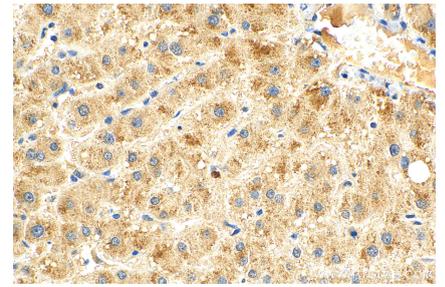
## Selected Validation Data



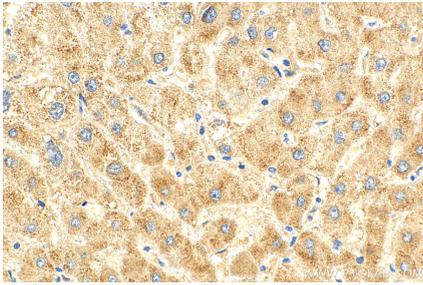
Various lysates were subjected to SDS PAGE followed by western blot with 27801-1-AP (SPG7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-SPG7 (IP:27801-1-AP, 4ug; Detection:27801-1-AP 1:500) with HeLa cells lysate 2800 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 27801-1-AP (SPG7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 27801-1-AP (SPG7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).