

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, 80 kDa

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:

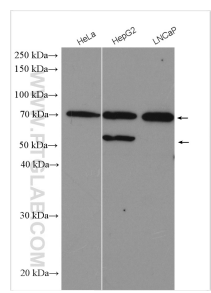
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

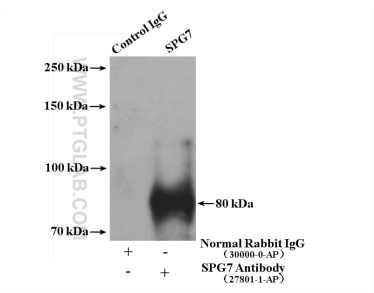
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

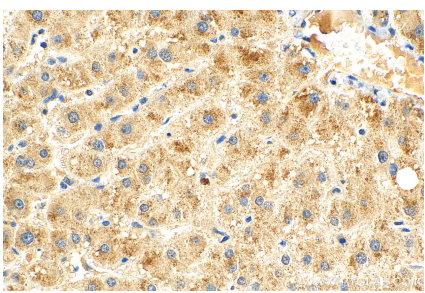
Selected Validation Data



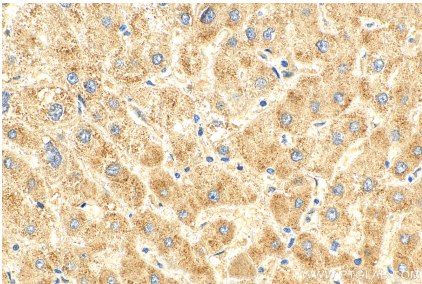
Various lysates were subjected to SDS PAGE followed by western blot with 27801-1-AP (SPG7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



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