

For Research Use Only

# HPS4 Polyclonal antibody

Catalog Number: 14627-1-AP

5 Publications



## Basic Information

### Catalog Number:

14627-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6202

### GenBank Accession Number:

BC065030

### GeneID (NCBI):

89781

### UNIPROT ID:

Q9NQG7

### Full Name:

Hermansky-Pudlak syndrome 4

### Calculated MW:

77 kDa

### Observed MW:

70-90 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : Jurkat cells, A375 cells, HeLa cells, K-562 cells

IP : HeLa cells, IP result of anti-HPS4 (14627-1-AP for IP and Detection) with HeLa cell lysate.

IHC : human liver tissue,

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Hermansky-Pudlak syndrome (HPS) is a genetic disease characterized by oculocutaneous albinism, bleeding due to platelet storage pool deficiency, and lysosomal storage defects. This syndrome results from defects of diverse cytoplasmic organelles including melanosomes, platelet dense granules and lysosomes. HPS1 and HPS4 are the most frequently mutated genes associated with HPS in humans. Both of HPS1 and HPS4 are components of two complexes involved in biogenesis of melanosome and lysosome-related organelles: BLOC-3 and BLOC-4. HPS4 is supposed to interact with HPS1 and stabilize HPS1. The human HPS4 migrates at about 90 kDa on SDS-PAGE, versus its predicated molecular mass of 77 kDa.

## Notable Publications

| Author        | Pubmed ID | Journal                   | Application |
|---------------|-----------|---------------------------|-------------|
| Seunghyi Kook | 29190429  | Am J Respir Cell Mol Biol | WB          |
| Trieu-Duc Vu  | 35504437  | Gene                      | WB          |
| Joshi Stephen | 28296950  | PLoS One                  | WB          |

## 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:

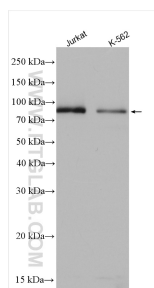
T: 4006900926

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

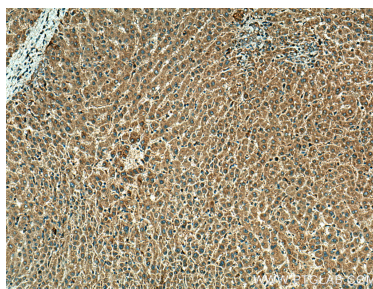
W: [ptgcn.com](http://ptgcn.com)

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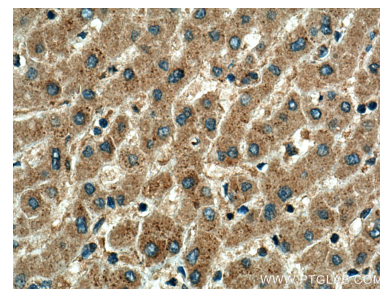
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14627-1-AP (HPS4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.

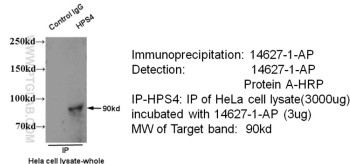


Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14627-1-AP (HPS4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

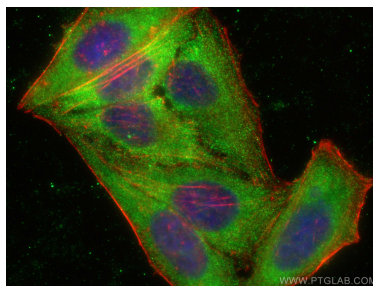


Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14627-1-AP (HPS4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

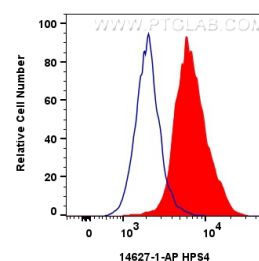
### IP & WB of 14627-1-AP with HeLa Cell



N/A.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HPS4 antibody (14627-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug HPS4 Polyclonal antibody (14627-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).