

# HPS-4 (N-20): sc-33379

## BACKGROUND

Hermansky-Pudlak syndrome (HPS) is a rare, genetically heterogeneous, autosomal recessive disorder. It is characterized by oculocutaneous albinism, lysosomal storage defects and prolonged bleeding due to platelet storage pool deficiency. There are ten HPS genes encoding HPS proteins that all interact within three distinct ubiquitously expressed protein complexes or biogenesis of lysosome-related organelle complexes. Defects in these genes cause HPS. HPS-4, also designated light-ear protein homolog, is important in organelle biosynthesis. Defects in the gene encoding for the HSP-4 protein, HPS4, can cause Hermansky-Pudlak syndrome 4 (HPS-4).

## CHROMOSOMAL LOCATION

Genetic locus: HPS4 (human) mapping to 22q12.1; Hps4 (mouse) mapping to 5 F.

## SOURCE

HPS-4 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of HPS-4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-33379 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

HPS-4 (N-20) is recommended for detection of HPS-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HPS-4 (N-20) is also recommended for detection of HPS-4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for HPS-4 siRNA (h): sc-44420, HPS-4 siRNA (m): sc-44996, HPS-4 shRNA Plasmid (h): sc-44420-SH, HPS-4 shRNA Plasmid (m): sc-44996-SH, HPS-4 shRNA (h) Lentiviral Particles: sc-44420-V and HPS-4 shRNA (m) Lentiviral Particles: sc-44996-V.

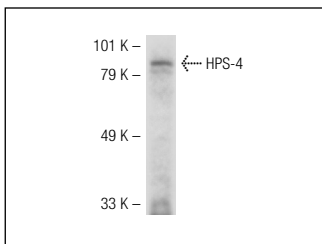
Molecular Weight of HPS-4: 77 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209.

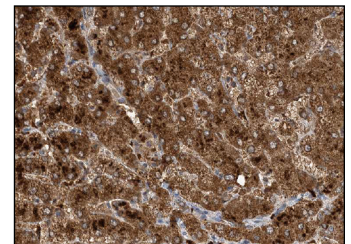
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



HPS-4 (N-20): sc-33379. Western blot analysis of HPS-4 expression in 293T whole cell lysate.



HPS-4 (N-20): sc-33379. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes at high magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **HPS-4 (A-6): sc-398070** or **HPS-4 (H-3): sc-166638**, our highly recommended monoclonal alternatives to HPS-4 (N-20).