

HPS1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1150a**Specification**

HPS1 Antibody - Product Information

Application	WB, E
Primary Accession	Q92902
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a

Description

Hermansky-Pudlak syndrome 1. This protein may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. The encoded protein is a component of three different protein complexes termed biogenesis of lysosome-related organelles complex (BLOC)-3, BLOC4, and BLOC5. Mutations in this gene are associated with Hermansky-Pudlak syndrome type 1. Multiple transcript variants encoding distinct isoforms have been identified for this gene; the full-length sequences of some of these have not been determined yet.

Immunogen

Purified recombinant fragment of HPS1 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

HPS1 Antibody - Additional Information

Gene ID 3257

Other Names

Hermansky-Pudlak syndrome 1 protein, HPS1, HPS

Dilution

WB~~1/500 - 1/2000

E~~N/A

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HPS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HPS1 Antibody - Protein Information

Name HPS1

Synonyms HPS

Function

Component of the BLOC-3 complex, a complex that acts as a guanine exchange factor (GEF) for RAB32 and RAB38, promotes the exchange of GDP to GTP, converting them from an inactive GDP-bound form into an active GTP-bound form. The BLOC-3 complex plays an important role in the control of melanin production and melanosome biogenesis and promotes the membrane localization of RAB32 and RAB38 (PubMed:23084991).

Tissue Location

Ubiquitous.

HPS1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HPS1 Antibody - Images

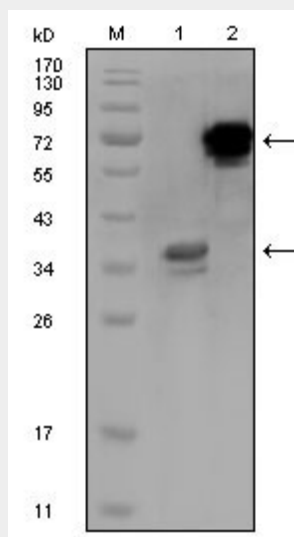


Figure 1: Western blot analysis using HPS1 mouse mAb against truncated HPS1 recombinant protein (1) and HPS1-hlgGfC transfected CHO-K1 cell lysate (2).

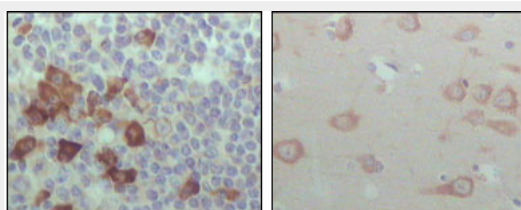


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node (left) and brain (right), showing cytoplasmic localization with DAB staining using Ehpb6 mouse mAb.

HPS1 Antibody - References

1. Platelets. 2007 Mar;18(2):150-7. 2. Intern Med. 2005 Jun;44(6):616-21. 3. Proc Natl Acad Sci U S A. 2003 Jul 22;100(15):8770-5. Epub 2003 Jul 7.