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# HPS1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1150a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q92902 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 5G12G2 |
| **Isotype** | IgG2a |
| **Calculated MW** | 79292 |
| **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. |

## Additional Information

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| **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. |

## Protein Information

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| **Name** | HPS1 |

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| **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. |

## 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.

## Images

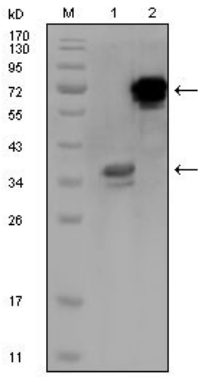


Figure 1: Western blot analysis using HPS1 mouse mAb against truncated HPS1 recombinant protein (1) and HPS1-hIgGFc transfected CHO-K1 cell lysate (2).

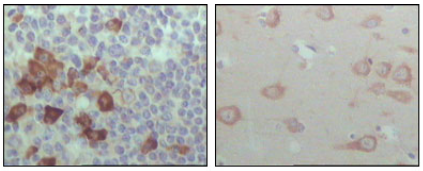

Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node (left) and brain (right), showing cytoplasmic localization with DAB staining using EhpB6 mouse mAb.