

**Melanophilin Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57248**

**Specification**

**Melanophilin Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9BV36</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Melanophilin
Epitope Specificity	451-550/600
Isotype	IgG
<b>Purity</b>	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Contains 1 FYVE-type zinc finger. Contains 1 RabBD (Rab-binding) domain.
DISEASE	Defects in MLPH are a cause of Griscelli syndrome type 3 (GS3) [MIM:609227]. GS3 is a rare autosomal recessive disorder characterized by pigmentary dilution of the skin and hair, the presence of large clumps of pigment in hair shafts, and an accumulation of melanosomes in melanocytes, without other clinical manifestations.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

This gene encodes a member of the exophillin subfamily of Rab effector proteins. The protein forms a ternary complex with the small Ras-related GTPase Rab27A in its GTP-bound form and the motor protein myosin Va. A similar protein complex in mouse functions to tether pigment-producing organelles called melanosomes to the actin cytoskeleton in melanocytes, and is required for visible pigmentation in the hair and skin. A mutation in this gene results in Griscelli syndrome type 3, which is characterized by a silver-gray hair color and abnormal pigment distribution in the hair shaft. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

**Melanophilin Polyclonal Antibody - Additional Information**

**Gene ID 79083****Other Names**

Melanophilin, Exophilin-3, Slp homolog lacking C2 domains a, SlaC2-a, Synaptotagmin-like protein 2a, MLPH, SLAC2A

**Dilution**

<span class ="dilution\_WB">WB~~1:1000</span><br /><span class ="dilution\_IHC-P">IHC-P~~N/A</span><br /><span class ="dilution\_IHC-F">IHC-F~~N/A</span><br /><span class ="dilution\_IF">IF~~1:50~200</span><br /><span class ="dilution\_ICC">ICC~~N/A</span><br /><span class ="dilution\_E">E~~N/A</span>

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Melanophilin Polyclonal Antibody - Protein Information**

**Name** MLPH

**Synonyms** SLAC2A

**Function**

Rab effector protein involved in melanosome transport. Serves as link between melanosome-bound RAB27A and the motor protein MYO5A.

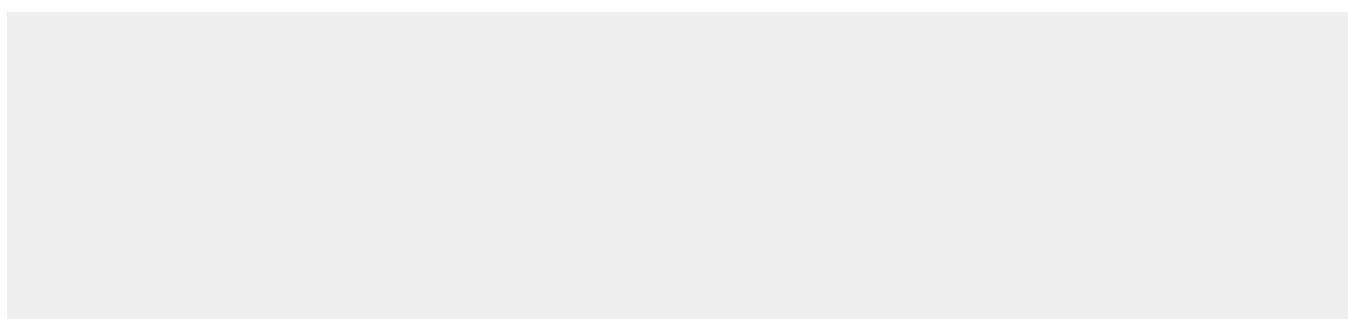
**Cellular Location**

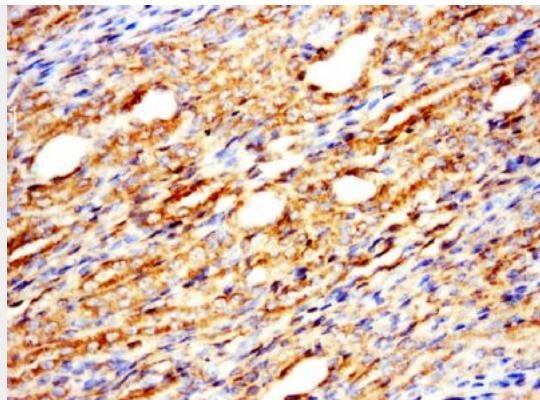
Cytoplasm.

**Melanophilin Polyclonal 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](#)

**Melanophilin Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Melanophilin) Polyclonal Antibody, Unconjugated (bs-18784R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.