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Rabbit Anti-Melanophilin antibody

SL18784R

Product Name:	Melanophilin
Chinese Name:	黑色素亲和素抗体
Alias:	2210418F23Rik; 5031433I09Rik; AW228792; D1Wsu84e; Exophilin 3; Exophilin-3; l(1)-3Rk; l1Rk3; Leaden; Leaden protein; ln; Melanophilin; MELPH_HUMAN; MGC2771; MGC59733; Mlph; Slac 2a; SlaC2-a; Slp homolog lacking C2 domains a; Synaptotagmin like protein 2a; Synaptotagmin like protein lacking C2 domains A; Synaptotagmin-like protein 2a.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	66kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Melanophilin:451-550/600
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	This gene encodes a member of the exophilin 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]

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

Subcellular Location:
Cytoplasm.

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.

Similarity:
Contains 1 FYVE-type zinc finger.
Contains 1 RabBD (Rab-binding) domain.

SWISS:
Q9BV36

Gene ID:
79083

Database links:

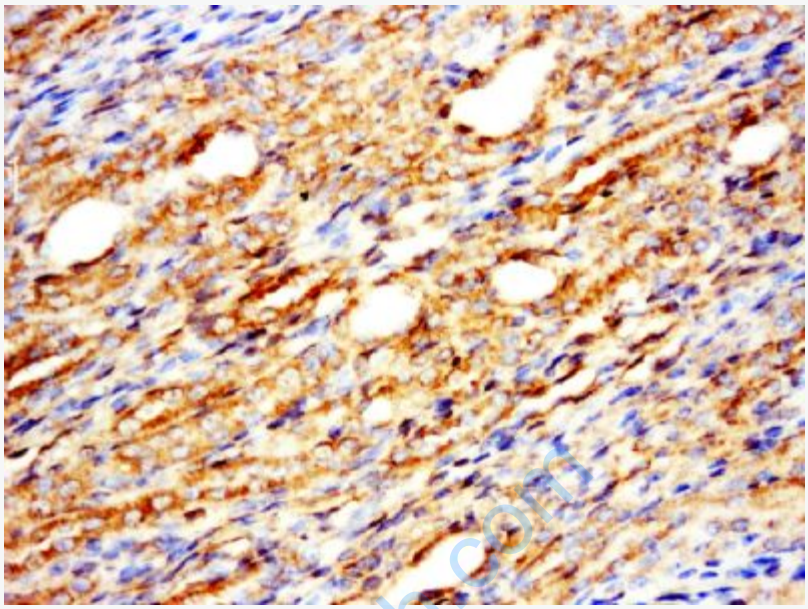
Entrez Gene: 79083 Human

Omim: 606526 Human

SwissProt: Q9BV36 Human

Unigene: 102406 Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 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 (SL18784R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.