

Datasheet for ABIN184753

**anti-Melanophilin antibody (C-Term)****2** Images**4** Publications[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Melanophilin (MLPH)
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Melanophilin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Pull-Down Assay (Pull-Down)

## Product Details

Purpose:	Melanophilin (mouse)
Immunogen:	Peptide with sequence C-ARHIFAKPVMAQQP, from the C Terminus of the protein sequence according to NP_443748.2.
Sequence:	ARHIFAKPVM AQQP
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

## Target Details

Target:	Melanophilin (MLPH)
Alternative Name:	Mlph ( <a href="#">MLPH Products</a> )
Background:	2210418F23Rik, melanophilin, Mlph, In, I1Rk3, Slac-2a, D1Wsu84e, I(1)-3Rk, 5031433I09Rik, leaden, AW228792, OTTMUSP00000025451
Gene ID:	171531, 316620
NCBI Accession:	<a href="#">NP_443748</a>

## Application Details

Application Notes:	Western Blot: Approx 80 kDa band observed in Mouse Melanocyte extracts. Recommended for use at 0.5-2 µg/mL. Please note that this product may require overnight incubation of primary and high protein loads. This antibody has been successfully used in WB on Peptide ELISA: antibody detection limit dilution 1:32000.
Comment:	<b>Immunofluorescence:</b> Successfully used at 0.5ug/ml to stain mouse melanocytes. This antibody has been successfully used in IF on Mouse: Figueiredo AC et al., J Biol Chem. 2008 Aug 22;283(34):23209-16. PMID:18559336. <b>GST-pull do</b>
Restrictions:	For Research Use only

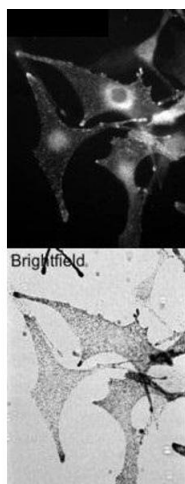
## Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

## Publications

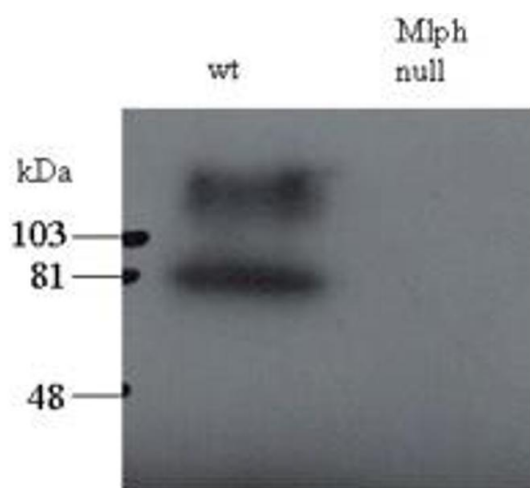
- Product cited in: Sanzà, Evans, Briggs, Cantero, Montoliu, Patel, Sviderskaya, Itzen, Figueiredo, Seabra, Hume: "Nucleotide exchange factor Rab3GEP requires DENN and non-DENN elements for activation and targeting of Rab27a." in: **Journal of cell science**, Vol. 132, Issue 9, (2020) ([PubMed](#)).
- Singh, Mizuno, Wasmeier, Wavre-Shapton, Recchi, Catz, Futter, Tolmachova, Hume, Seabra: "Distinct and opposing roles for Rab27a/Mlph/MyoVa and Rab27b/Munc13-4 in mast cell secretion." in: **The FEBS journal**, Vol. 280, Issue 3, pp. 892-903, (2013) ([PubMed](#)).
- Figueiredo, Wasmeier, Tarafder, Ramalho, Baron, Seabra: "Rab3GEP is the non-redundant guanine nucleotide exchange factor for Rab27a in melanocytes." in: **The Journal of biological chemistry**, Vol. 283, Issue 34, pp. 23209-16, (2008) ([PubMed](#)).
- Hume, Tarafder, Ramalho, Sviderskaya, Seabra: "A coiled-coil domain of melanophilin is essential for Myosin Va recruitment and melanosome transport in melanocytes." in: **Molecular biology of the cell**, Vol. 17, Issue 11, pp. 4720-35, (2006) ([PubMed](#)).

## Images



### Immunofluorescence

**Image 1.** Wild-type C57bl6 derived melanocytes were stained with (ABIN184753) (0.5 µg/mL) and detected with Alexa568 conjugated donkey anti-sheep second antibodies. Brightfield image shows melanosome distribution. Data kindly provided by A N Hume, Imperial College.



Western Blotting

**Image 2.** ABIN184753 staining (0.5ug/ml) of total melanocyte PNS (200ug per lane) of wild-type and leaden (*Mlph* null) mice. The upper band may represent the stacking-separating gel interface. Data kindly provided by A N Hume, Imperial College.