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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB05444 - Goat Anti-Melanophilin (mouse) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: 2210418F23Rik, melanophilin, Mlph, In, I1Rk3, Slac-2a, D1Wsu84e, I(1)-3Rk, 5031433I09Rik, leaden, AW228792, OTTMUSP00000025451

Official Symbol: Mlph

Accession Number(s): NP_443748.2

Non-Human GeneID(s): 171531 (mouse), 316620 (rat)

Immunogen

Peptide with sequence C-ARHIFAKPVMAQQP, from the C Terminus of the protein sequence according to NP_443748.2.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.

Western blot: Approx 80 kDa band observed in Mouse Melanocyte extracts.

Recommended for use at 0.5-2ug/ml. Please note that this product may require overnight incubation of primary and high protein loads.

Immunofluorescence: Successfully used at 0.5ug/ml to stain mouse melanocytes, see picture. See also publication Figueiredo AC et al., J Biol Chem. 2008 Aug 22;283(34):23209-16. (PMID:18559336).

GST-pull down assay: See publication Figueiredo AC et al., J Biol Chem. 2008 Aug 22;283(34):23209-16. (PMID:18559336).

Species Reactivity

Tested: Mouse

Expected from sequence similarity: Mouse, Rat

Specific References

Singh RK, Mizuno K, Wasmeier C, Wavre-Shapton ST, Recchi C, Catz SD, Futter C, Tolmachova T, Hume AN, Seabra MC.

Distinct and opposing roles for Rab27a/Mlph/MyoVa and Rab27b/Munc13-4 in mast cell secretion.

FEBS J. 2013 Feb;280(3):892-903.

PMID: 23281710

This antibody has been successfully used (in WB, IF on Mouse melanocytes) in the following paper:

Figueiredo AC, Wasmeier C, Tarafder AK, Ramalho JS, Baron RA, Seabra MC.

Rab3GEP Is the Non-redundant Guanine Nucleotide Exchange Factor for Rab27a in Melanocytes.

J Biol Chem. 2008 Aug 22;283(34):23209-16.

PMID: 18559336

This antibody has been successfully used in the following paper:

Hume AN, Tarafder AK, Ramalho JS, Sviderskaya EV, Seabra MC.

A coiled-coil domain of melanophilin is essential for Myosin Va recruitment and melanosome transport in melanocytes.

Mol Biol Cell. 2006 Nov;17(11):4720-35.

PMID: 16914517

EB05444 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.

Wild-type C57bl6 derived melanocytes were stained with EB05444 (0.5ug/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.