

Human/Mouse/Rat MP1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 448406 Catalog Number: MAB4367

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat MP1 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 448406
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human MP1 Ala2-Ser124 Accession # Q9UHA4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

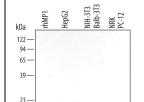
Western Blot

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA

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Detection of Human/Mouse/Rat MP1 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line. Balb/3T3 mouse embryonic fibroblast cell line, NRK rat normal kidney cells, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 1 µg/mL Mouse Anti-Human/Mouse/Rat MP1 Monoclonal Antibody (Catalog # MAB4367) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human MP1 (2 ng) was included. A specific band for MP1 was detected at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

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Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

MP1 (MEK Partner 1), gene name LAMTOR3 (late endosomal/lysosomal adaptor and MAPK and MTOR activator 3), was initially identified as a scaffold protein that tethers MEK1 and ERK1 to facilitate their activation. MP1 and other MAPK scaffolds promote phosphorylation efficiency and specificity, localize their bound pathway components to particular subcellular sites, and serve as nodes of signal integration for regulation of MAPK pathways by other signaling events. With the assistance of adaptor protein p14, the bound MP1 complex localizes to late endosomes and is thought to regulate endosomal traffic and cellular proliferation during tissue homeostasis.

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