

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	<i>E. coli</i> -derived recombinant human MP1 Ala2-Ser124 Accession # Q9UHA4
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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