

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat MKP-3 in Western blots. In Western blots, this antibody does not cross-react with recombinant human MKP-1 or MKP-2.
Source	Monoclonal Mouse IgG _{2A} Clone # 363246
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MKP-3 Ile2-Thr381 Accession # Q16828
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

MAP Kinase Phosphatase 3 (MKP-3), also called PYST1 and Dual Specificity Phosphatase 6 (DUSP6), dephosphorylates serine, threonine, and tyrosine residues in proteins. On Western blots, MKP-3 has an apparent molecular weight of 42 kilodaltons. It has a high degree of substrate selectivity for dephosphorylating ERK kinases over stress-related kinases such as p38 and JNK. MKP-3 is ubiquitinated prior to degradation in the proteasome. The rate of MKP-3 degradation is enhanced by ERK-mediated phosphorylation.

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