

# Human/Mouse/Rat MKP-3 Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 363246

Catalog Number: MAB3576

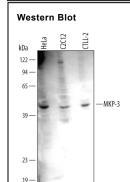
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects endogenous human, mouse, and rat MKP-3 in Western blots. In Western blots, this antibody does not cross-react with recombina human MKP-1 or MKP-2.	
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 363246	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human MKP-3 Ile2-Thr381 Accession # Q16828	
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 as a 0.2 µm filtered solution in PBS.	

#### **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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

## DATA



Detection of Human and Mouse MKP-3 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, C2C12 mouse myoblast cell line, and CTLL-2 mouse cytotoxic T cell line. PVDF membrane was probed with 1  $\mu$ g/mL of Human/Mouse/Rat MKP-3 Monoclonal Antibody (Catalog # MAB3576) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for MKP-3 at approximately 42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
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	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>	
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>	
	● 6 months -20 to -70 °C under sterile conditions after reconstitution	

### 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 ubiquitinylated prior to degradation in the proteosome. The rate of MKP-3 degradation is enhanced by ERK-mediated phosphorylation.

