

## DESCRIPTION

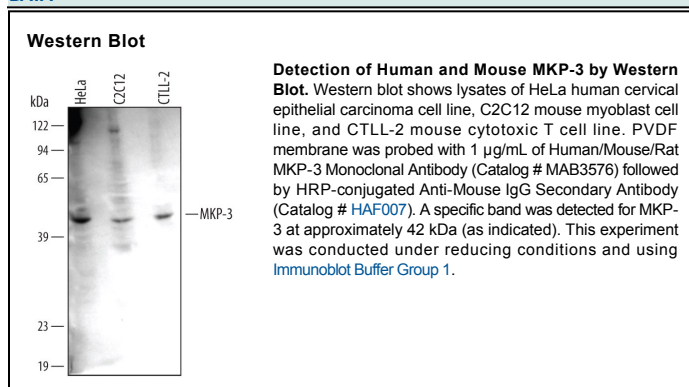
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects endogenous human, mouse, and rat MKP-3 in Western blots. In Western blots, this antibody does not cross-react with recombinant human MKP-1 or MKP-2.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 363246
<b>Purification</b>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

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.