

**DESCRIPTION**

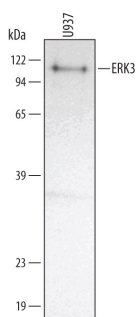
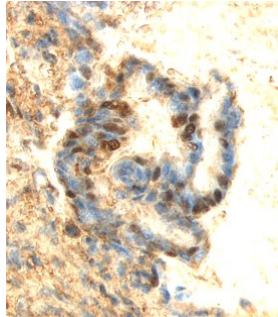
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ERK3 in direct ELISA and Western Blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 335102
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ERK3 Met344-Asn721 Accession # Q16659
<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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human ERK3 by Western Blot.</b> Western blot shows lysates of U937 human histiocytic lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human ERK3 Monoclonal Antibody (Catalog # MAB3196) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for ERK3 at approximately 105 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>ERK3 in Human Breast Cancer Tissue.</b> ERK3 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using 8 µg/mL Mouse Anti-Human ERK3 Monoclonal Antibody (Catalog # MAB3196) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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**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**

Extracellular signal-regulated kinase 3 (ERK3) is a serine/threonine protein kinase also known as mitogen-activated protein kinase 6 (MAPK6) and p97MAPK. Unlike ERK1 and ERK2, ERK3 lacks the phosphoacceptor sequence T-E-Y in its activation loop. This kinase also possesses a unique C-terminal extension that is missing in traditional MAPKs. Highly unstable, ERK3 is rapidly degraded following N-terminal ubiquitination.