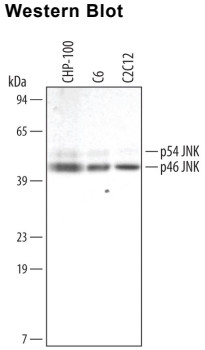
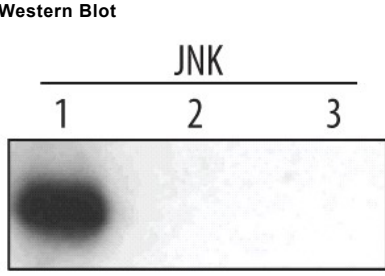
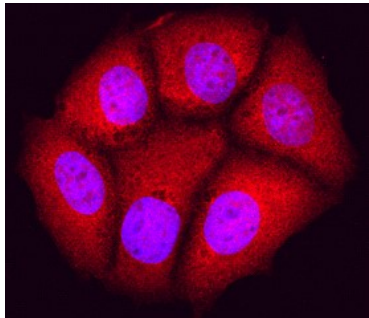


DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human JNK1 in direct ELISAs and human, mouse, and rat JNK1 expressed predominantly as p46 JNK (isoforms 2 and/or 3, both 384 aa), with lesser amounts of p54 JNK (isoforms 1 and/or 4, both 427 aa), in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) JNK2 or rhJNK3 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 228601
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human JNK1 isoform 2 Ser2-Ile384 Accession # P45983-1
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA	
<p>Western Blot</p>  <p>Detection of Human, Mouse, and Rat JNK1 by Western Blot. Western blot shows lysates of CHP-100 human neuroblastoma cell line, C6 rat glioma cell line, and C2C12 mouse myoblast cell line. PVDF membrane was probed with 1 µg/mL Mouse Anti-Human/Mouse/Rat JNK1 Monoclonal Antibody (Catalog # MAB17761) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for JNK1 was detected at approximately 46 kDa and 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.</p>	<p>Western Blot</p>  <p>Detection of Human JNK1 by Western Blot. Western blot shows recombinant human JNK1, JNK2, and JNK3 (1 ng/lane). PVDF membrane was probed with 1 µg/mL Mouse Anti-Human/Mouse/Rat JNK1 Monoclonal Antibody (Catalog # MAB17761) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for JNK1 was detected at approximately 46 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.</p>

<p>Immunocytochemistry</p>  <p>JNK1 in MCF-7 Human Cell Line. JNK1 was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human/Mouse/Rat JNK1 Monoclonal Antibody (Catalog # MAB17761) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS containing 0.02% Na ₂ S ₂ O ₃ .
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 style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The c-Jun N-terminal kinases (JNKs) are encoded by three genes: JNK1, JNK2, and JNK3. Members of the MAPK superfamily, JNKs are activated by environmental stresses and inflammatory cytokines. JNK1, also known as SAPK1 γ and MAPK8, is expressed as four isoforms generated by alternative splicing. JNK1 is activated by dual phosphorylation at T183 and Y185 by the MAPK kinases MKK4 and/or MKK7.