

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat GSK-3β when phosphorylated at S9, and human, mouse, and rat GSK-3α when phosphorylated at S21.
<b>Source</b>	Polyclonal Rabbit IgG
<b>Purification</b>	Antigen and protein A Affinity-purified
<b>Immunogen</b>	Phosphopeptide containing GSK-3β S9 site
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

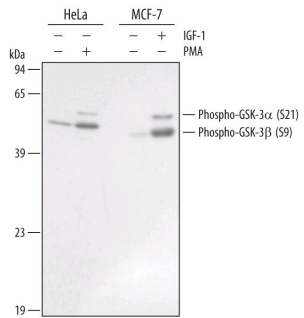
## APPLICATIONS

**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>	0.2 μg/mL	See Below
<b>Immunocytochemistry</b>	5-15 μg/mL	Immersion fixed HeLa human cervical epithelial carcinoma cell
<b>Intracellular Staining by Flow Cytometry</b>	2.5 μg/10 <sup>6</sup> cells	See Below

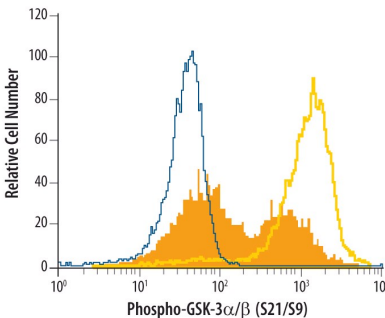
## DATA

**Western Blot**



**Detection of Human Phospho-GSK-3α (S21) and GSK-3β (S9) by Western Blot.** Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line untreated (-) or treated (+) with 200 nM PMA for 20 minutes and MCF-7 human breast cancer cell line untreated or treated with 100 ng/mL Recombinant Human IGF-1 (Catalog # 291-G1) for 15 minutes. PVDF membrane was probed with 0.2 μg/mL of Human/Mouse/Rat Phospho-GSK-3α/β (S21/S9) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1590), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for Phospho-GSK-3α (S21) and GSK-3β (S9) at approximately 51 and 46 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Intracellular Staining by Flow Cytometry**



**Detection of Phospho-GSK-3α/β (S21/S9) in Jurkat Human Cell Line by Flow Cytometry.** Jurkat human acute T cell leukemia cells, untreated (open histogram, yellow line), or treated with PI3-kinase inhibitors (dark orange filled histogram), were stained with Human/Mouse/Rat Phospho-GSK-3α/β (S21/S9) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1590) or control antibody (Catalog # AB-105-C, blue open histogram), followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month from date of receipt, 2 to 8 °C, reconstituted.</li> <li>● 6 months from date of receipt, -20 to -70 °C, reconstituted.</li> </ul>