

## DESCRIPTION

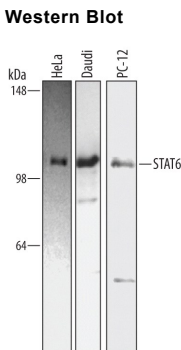
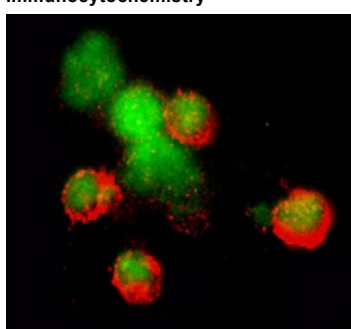
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human, mouse, and rat STAT6.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 253906
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human STAT6 Asn341-Gly640 Accession # P42226.1
<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>	0.5 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Intracellular Staining by Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with methanol

## DATA

<b>Western Blot</b>	<b>Immunocytochemistry</b>
 <p><b>Detection of Human STAT6 by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Daudi human Burkitt's lymphoma cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Human STAT6 Monoclonal Antibody (Catalog # MAB2167) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for STAT6 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 5</i>.</p>	 <p><b>STAT6 in Human PBMCs.</b> STAT6 was detected in immersion fixed PHA-stimulated human peripheral blood mononuclear cells (PBMCs) using 8 µg/mL Human STAT6 Monoclonal Antibody (Catalog # MAB2167) for 3 hours at room temperature. Cells were stained (red) and counterstained (green). View our protocol for <a href="#">Fluorescent ICC Staining of Non-adherent Cells</a>.</p>

## 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

STAT family proteins mediate cytokine signaling by acting as signal transducers in the cytoplasm and transcription activators in the nucleus. STAT6 is important for the development of Th2 cells and regulation of gene expression induced by IL-4 and IL-13.