

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Phospho-SLP-76/LCP2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 776503
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Phosphopeptide containing the human SLP-76/LCP2 Y145 site Accession # Q13094
<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 either lyophilized or as a 0.2 µm filtered solution in PBS.

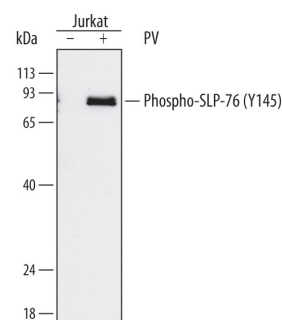
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Simple Western</b>	1 µg/mL	See Below

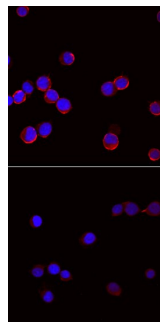
## DATA

### Western Blot



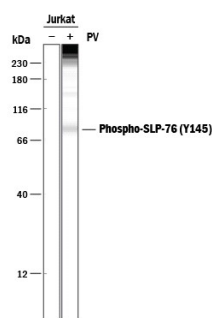
**Detection of Human Phospho-SLP-76/LCP2 by Western Blot.** Western blot shows lysates of Jurkat human acute T cell leukemia cell line untreated (-) or treated (+) with 1 mM Pervanadate (PV) for 5 minutes. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human Phospho-SLP-76/LCP2 (Y145) Monoclonal Antibody (Catalog # MAB7474) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Phospho-SLP-76/LCP2 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

### Immunocytochemistry



**Phospho-SLP-76/LCP2 (Y145) in Jurkat Human Cell Line.** SLP-76/LCP2 phosphorylated at Y145 was detected in immersion fixed Jurkat human acute T cell leukemia cells treated with (upper panel) or without (lower panel) Pervanadate using Mouse Anti-Human Phospho-SLP-76/LCP2 (Y145) Monoclonal Antibody (Catalog # MAB7474) 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 cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

### Simple Western



**Detection of Phospho-Human SLP-76/LCP2 (Y145) by Simple Western™.** Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line untreated (-) or treated (+) with 1 mM Pervanadate (PV) for 5 minutes, loaded at 0.2 mg/mL. A specific band was detected for Phospho-Human SLP-76/LCP2 (Y145) at approximately 76-80 kDa (as indicated) using 1 µg/mL of Mouse Anti-Human Phospho-SLP-76/LCP2 (Y145) Monoclonal Antibody (Catalog # MAB7474). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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>

# Human Phospho-SLP-76/LCP2 (Y145) Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 776503

Catalog Number: MAB7474

## BACKGROUND

SLP-76 is a 533 amino acid (aa), 76 kDa tyrosine phosphorylated intracellular docking protein with a single SH2 recognition domain. It is expressed in T cells, platelets, neutrophils, NK and mast cells, and is required for progression of T cells to double positive stage in the thymus. Tyrosine phosphorylation is required for interaction with the signaling proteins VAV, NCK, PLCγ, ITK, and ZAP70. SLP-76 may be phosphorylated by ZAP70 leading to NF-AT and IL2 gene activation. Human SLP-76 shares 83% and 85% aa sequence identity with mouse and rat SLP-76, respectively.