

# **Human Phospho-LAT (Y161) Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 627945 Catalog Number: MAB6334

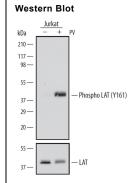
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Phospho-LAT (Y161) in Western blots.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 627945	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Phosphopeptide containing the human LAT Y161 site Accession # 043561	
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. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	See Below

#### DATA



Detection of Human Phospho-LAT (Y161) by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line untreated (-) or treated (+) with Pervanadate (PV) for 5 minutes. PVDF Membrane was probed with 0.1 µg/mL of Mouse Anti-Human Phospho-LAT (Y161) Monoclonal Antibody (Catalog # MAB6334) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Phospho-LAT (Y161) at approximately 40 kDa (as indicated). For additional reference, the membrane was stripped and reprobed with 1 µg/mL of Sheep Anti-Human LAT Antigen Affinity-purified Polyclonal Antibody (lower panel, Catalog # AF6208). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

# PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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.

- 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

LAT (Linker for Activation of T cells) is a type III transmembrane lipid raft protein that serves as a scaffold for signaling molecules. Isoforms of 262 (36 kDa) and 233, called long and short, respectively, differ by inclusion/exclusion of aa 114-142; a 269 aa isoform lacks this region, but includes alternate N-terminal sequence. Upon T-cell antigen receptor activation, LAT is multiply phosphorylated by ZAP-70/Syk protein tyrosine kinases, creating docking sites for SH2 domain-containing proteins. Phospholipase C- $\gamma$  docks at Y161, which is pY132 in the short form of LAT. Mutation of this site results in a Th2 autoimmune lymphoproliferative disorder in mice.

Rev. 2/7/2018 Page 1 of 1

