

## The path to legendary discovery™

## **Product Data Sheet**

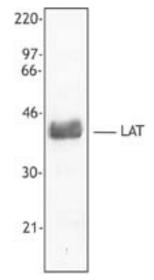
## **Purified anti-LAT**

Catalog # / Size:	623901 / 25 μg 623902 / 100 μg
Clone:	LAT1111
Isotype:	Mouse IgG1
Immunogen:	Partial recombinant protein (cytoplasmic domain of human LAT)
Reactivity:	Human (does not cross-react with mouse)
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	This LAT antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
Concentration:	0.5 mg/ml
Storage:	Upon receipt, store at 4°C.

## **Applications:**

Applications:	WB-Quality tested IP - Reported in the literature	
Recommended Usage:	Each lot of this LAT antibody is quality control tested by We Western blotting, suggested working dilution(s): Use 5 µg a antibody dilution buffer for each mini-gel. It is recommended be titrated for optimal performance for each application.	ntibody per 5 ml
Description:	LAT (linker for activation of T-cells) is a 36 kD phospho-tyrosine adaptor protein containing SH2 domains and a CVRC motif. Two LAT isoforms have been reported with approximate molecular weights of 36 kD and 38 kD. LAT is localized to lipid rafts, and is also a potential type III transmembrane protein, thought to be expressed in the juxtanuclear intracellular compartment. LAT links TCR engagement to Ras-MAPK activation, Ca <sup>2+</sup> flux, IL-2 expression and is required for T-cell development. LAT is phosphorylated when activated by TCR cross-linking, where it recruits signaling molecules. LAT activation can be prevented by polyunsaturated fatty acids. LAT is modified by ZAP-70 and Syk phosphorylation and can also be palmitoylated. LAT has been reported to be associated with Grb2, Gads, Grap, PLC- $\gamma$ 1, p85 subunit PI3K, ZAP-70, Syk, Itk, Vav, SLP-76, and cbl. The LAT1111 monoclonal antibody recognizes the cytoplasmic domain of human LAT and has been shown to be useful for Western blotting and immunoprecipitation. The LAT1111 antibody does not cross-react with mouse LAT.	
Antigen References:	<ol> <li>Zhang W, et al. 1998. Cell. 92:83.</li> <li>Zeyda M, et al. 2002. J. Biol. Chem. 277:28418.</li> <li>Perez-Villar J, et al. 2002 Biochemistry. 41:10732.</li> <li>Hartgroves L, et al. 2003 J. Biol. Chem. 278:20389.</li> </ol>	
Related Products	<b>: Product</b> Purified anti-human CD3 Purified anti-human CD3 HRP Goat anti-mouse IgG (minimal x-reactivity)	<b>Clone</b> HIT3a UCHT1 Poly4053

Purified anti-SLP-76



Whole cell extract from human peripheral blood mononuclear cells was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-LAT antibody. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system.

> Application FC, IHC, IP FC, IHC, IP, WB, CyTOF® ELISA, IHC, WB WB, IP, FC



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