

For Research Use Only

# LAT Polyclonal antibody

Catalog Number: 11326-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 11326-1-AP	<b>GenBank Accession Number:</b> BC011563	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 300 µg/ml	<b>GeneID (NCBI):</b> 27040	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43561	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> linker for activation of T cells	IHC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG1868	<b>Calculated MW:</b> 262 aa, 28 kDa	IF 1:200-1:800
	<b>Observed MW:</b> 36-38 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, IF/ICC, IHC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, mouse thymus
<b>Cited Applications:</b> WB, IHC	IP : Jurkat cells,
<b>Species Specificity:</b> human, mouse	IHC : human thymus tissue,
<b>Cited Species:</b> human, mouse	IF : Jurkat cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

LAT is a membrane-localized adaptor protein which is primarily concentrated in microdomains by palmitoylation. LAT plays a central role in T-cell activation by nucleating signaling complexes that are critical for the propagation of T-cell signals from the plasma membrane to the cellular interior. In addition to being a positive regulator of T cell signaling, LAT also recruits several negative regulatory proteins, including kinases, phosphatases, and ubiquitin ligases, which ultimately leads to signal termination. LAT is subject to ubiquitylation, and ubiquitin-resistant mutants of LAT display enhanced signaling.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuzi Xu	33737696	Sci Rep	IHC
Bin Shi	35355718	Front Pharmacol	WB
Xia Ke	26202642	Hepatol Int	IHC

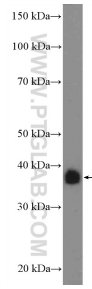
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

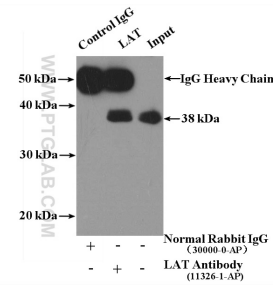
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

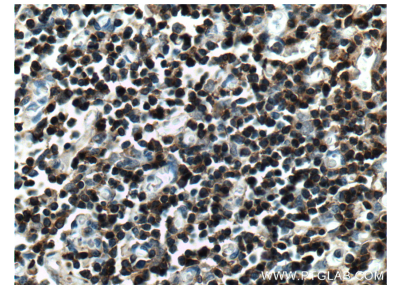
## Selected Validation Data



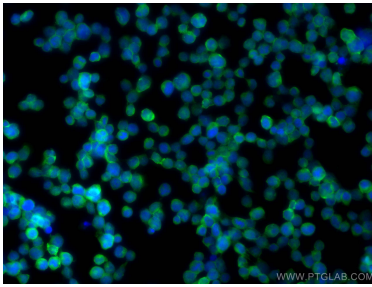
Jurkat cells were subjected to SDS PAGE followed by western blot with 11326-1-AP (LAT Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-LAT (IP:11326-1-AP, 4ug; Detection:11326-1-AP 1:1000) with Jurkat cells lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded human thymus tissue slide using 11326-1-AP (LAT Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using LAT antibody (11326-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).