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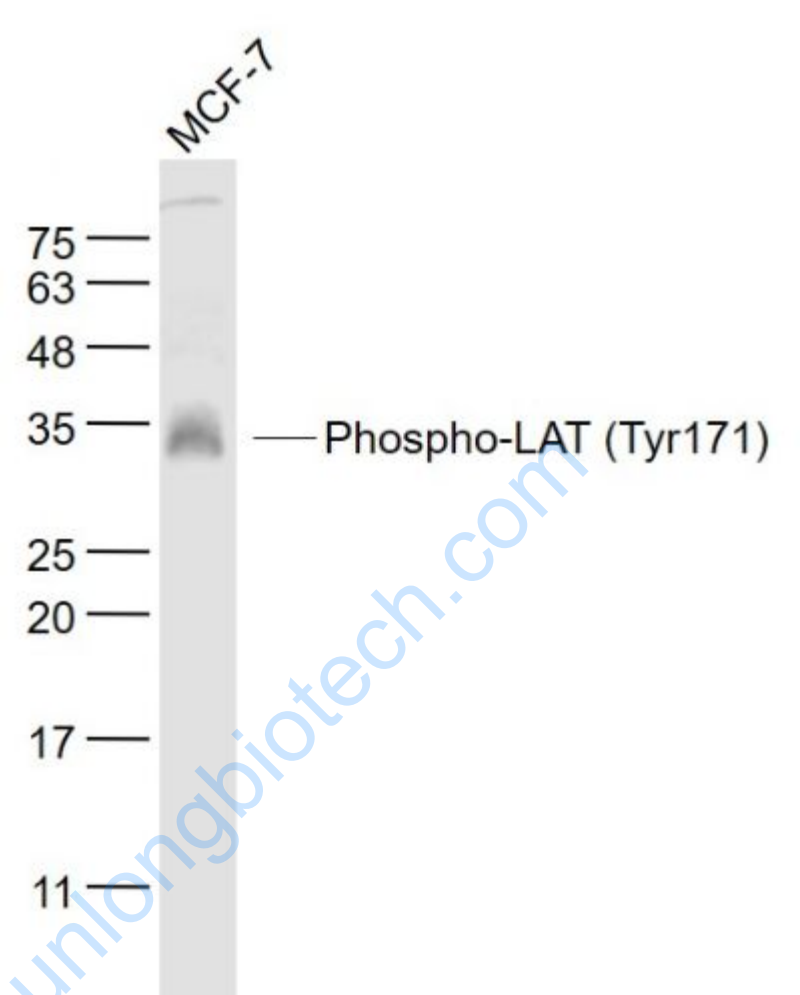
Rabbit Anti-Phospho-LAT (Tyr171) antibody

SL3243R

Product Name:	Phospho-LAT (Tyr171)
Chinese Name:	磷酸化T细胞活化连接蛋白抗体
Alias:	LAT (Phospho Tyr171); LAT (Phospho Y171); p-LAT (Tyr171); p-LAT (Y171); p-LAT (PhosphoTyr171); Linker for activation of T cell 1; 36 kDa phospho tyrosine adapter protein; LAT 1; LAT1; Linker for activation of T cells; Linker for activation of T cells family member 1; p36 38; pp36; LAT_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	29kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human LAT isoform b around the phosphorylation site of Tyr171:D(p-Y)VN
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is phosphorylated by ZAP-70/Syk protein tyrosine kinases following activation of the T-cell antigen receptor (TCR) signal transduction

	pathway. This transmembrane protein localizes to lipid rafts and acts as a docking site for SH2 domain-containing proteins. Upon phosphorylation, this protein recruits multiple adaptor proteins and downstream signaling molecules into multimolecular signaling complexes located near the site of TCR engagement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008] **Function:** Required for TCR (T-cell antigen receptor)- and pre-TCR-mediated signaling, both in mature T-cells and during their development. Involved in FCGR3 (low affinity immunoglobulin gamma Fc region receptor III)-mediated signaling in natural killer cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Couples activation of these receptors and their associated kinases with distal intracellular events such as mobilization of intracellular calcium stores, PKC activation, MAPK activation or cytoskeletal reorganization through the recruitment of PLCG1, GRB2, GRAP2, and other signaling molecules. **Subunit:** When phosphorylated, interacts directly with the PIK3R1 subunit of phosphoinositide 3-kinase and the SH2 domains of GRB2, GRAP, GRAP2, PLCG1 and PLCG2. Interacts indirectly with CBL, SOS, VAV, and LCP2. Interacts with SHB, SKAP2 and CLNK. Interacts with FCGR1A. Interacts with GRB2, PLCG1 and THEMIS upon TCR activation in thymocytes. **Subcellular Location:** Cell membrane; Single-pass type III membrane protein. Note=Present in lipid rafts. **Tissue Specificity:** Expressed in thymus, T-cells, NK cells, mast cells and, at lower levels, in spleen. Present in T-cells but not B-cells (at protein level). **Post-translational modifications:** Phosphorylated on tyrosines by ZAP70 upon TCR activation, or by SYK upon other immunoreceptor activation; which leads to the recruitment of multiple signaling molecules. Is one of the most prominently tyrosine-phosphorylated proteins detected following TCR engagement. May be dephosphorylated by PTPRJ. Phosphorylated by ITK leading to the recruitment of VAV1 to LAT-containing complexes. Palmitoylation of Cys-26 and Cys-29 is required for raft targeting and efficient phosphorylation. **SWISS:** O43561 **Gene ID:** 27040

	Database links: Entrez Gene: 27040Human Entrez Gene: 16797Mouse Entrez Gene: 81511Rat Omim: 602354Human SwissProt: O43561Human SwissProt: O54957Mouse SwissProt: O70601Rat Unigene: 632179Human Unigene: 10280Mouse Unigene: 9773Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: MCF-7(Human) Cell Lysate at 30 ug Primary: Anti- Phospho-LAT (Tyr171) (SL3243R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29 kD Observed band size: 34 kD