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Product datasheet for TA320411

LAT Mouse Monoclonal Antibody [Clone ID: LAT.10-17 (10-17)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LAT.10-17 (10-17)
Applications:	WB
Recommended Dilution:	IP, WB
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	linker for activation of T-cells
Database Link:	NP_055202 Entrez Gene 27040 Human O43561
Background:	This LAT.10-17 (10-17) monoclonal antibody reacts with human Linker for Activation of T cells (LAT), which is essential for T cell receptor (TCR)-mediated signal transduction. Characterized as an integral transmembrane protein, this ~37-kDa molecule does not possess a true extracellular domain. Upon TCR/CD3 engagement, LAT localizes to lipid rafts and is tyrosine phosphorylated by ZAP-70, leading to the recruitment and activation of other downstream signaling molecules such as Grb-2, PLCγ, and PI3K. This adapter molecule has been shown to be required for T cell activation, as well as thymocyte and T regulatory cell development. In humans, LAT is expressed on peripheral blood lymphocytes, lymph nodes, and tonsil. Studies in mice have shown that LAT is expressed in thymocytes, T cells, mast cells, natural killer cells, megakaryocytes, platelets, and early B cells. This antibody does not crossreact with the mouse antigen.

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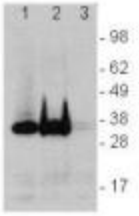
Synonyms: LAT1; pp36

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

Product images:



Immunoblotting of 10e6 normal peripheral human blood cells (lane 1), Jurkat (lane 2), and C57BL/6 splenocytes (lane 3) with 5 ug/mL Anti-Human LAT Purified. Bands were visualized using Anti-Mouse IgG HRP.