

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-LAT (Y161) in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 627945
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human LAT Y161 site Accession # O43561
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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-γ 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.

PRODUCT SPECIFIC NOTICES

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