For Research Use Only

Phospho-LCK (Tyr505) Recombinant antibody, PBS Only Catalog Number:85679-1-PBS



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Basic Information	85679-1-PBS	BC013200	Protein A purification
	Concentration: 1000 µg/ml	Genel D (NCBI): 3932	CloneNo.: 242450G6
	Source: Rabbit	UNIPROT ID: P06239	
	Isotype: IgG	Full Name: lymphocyte-specific protein tyrosine kinase	
		Calculated MW: 539 aa, 56 kDa	
		Observed MW: 56 kDa	
Applications	Tested Applications: WB, Indirect ELISA		
	Species Specificity: human		
Background Information	Lck is comprised of a SH3 domain, binding prolinerich regions, a SH2 domain, binding tyrosine-phosphorylated sequences, a kinase domain, a unique domain, and the negative regulatory tail. The kinase domain of Lck contains 2 important tyrosine residues. Tyr394 and Tyr505 represent the activating and inhibitory tyrosine residue, respectively. Therefore, Lck can exist in 4 distinct states of activity: an inactive state, a primed state, an active state, and a dually phosphorylated active state. Transitions between activity states are governed by phosphorylation at the Tyr394 and Tyr505 residues. When Tyr394 is dephosphorylated while Tyr505 is phosphorylated, Lck is in an inactive state. Lck becomes primed when Tyr505 is dephosphorylated and fully active after Tyr394 phosphorylation. In addition, there is a dually phosphorylated active form of Lck when both Tyr394 and Tyr505 residues are phosphorylated. (PMID: 32794043)		
Storage	Storage: Store at -80°C. The product is shipped with ice pack Storage Buffer: PBS only, pH7.3	<s. a<="" immediately="" it="" receipt,="" store="" td="" upon=""><td>at -80°C</td></s.>	at -80°C

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



Non-treated Jurkat cells and H2O2 treated Jurkat cells were subjected to SDS PAGE followed by western blot with 85679-1-RR (Phospho-LCK (Tyr505) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1 Ig) antibody as a loading control. This data was developed using the same antibody clone with 85679-1-PBS in a different storage buffer formulation.