

Recombinant Human ZAP70 cell lysate

Cat. No. ZAP70-1948HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	ZAP70 zeta-chain (TCR) associated protein kinase 70kDa [Homo sapiens]
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Official Symbol	ZAP70
Synonyms	ZAP70; zeta-chain (TCR) associated protein kinase 70kDa; SRK, zeta chain (TCR) associated protein kinase (70 kD); tyrosine-protein kinase ZAP-70; STD; ZAP 70; syk-related tyrosine kinase; 70 kDa zeta-associated protein; 70 kDa zeta-chain associated protein; zeta-chain associated protein kinase, 70kD; SRK; TZK; ZAP-70; FLJ17670; FLJ17679;
Gene ID	7535
mRNA Refseq	NM_001079
Protein Refseq	NP_001070
UniProt ID	P43403
Chromosome Location	2q11-q13
Pathway	Adaptive Immune System, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Generation of second messenger molecules, organism-specific biosystem; Immune System, organism-specific biosystem; Inflammatory Response Pathway, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity;