



# Mouse Anti-Human ZAP-70 monoclonal antibody, clone JID181 (CABT-L2812)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
<b>Specificity</b>	Human ZAP-70
<b>Isotype</b>	IgG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	JID181
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC
<b>Reconstitution</b>	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
<b>Positive Control</b>	CLL/SLL, Tonsil
<b>Format</b>	Liquid
<b>Size</b>	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
<b>Buffer</b>	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

<b>Preservative</b>	< 0.1% Sodium Azide
<b>Storage</b>	Store at 2-8°C. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	Zeta-Associated Protein-70 (ZAP-70) is associated with early B-lymphocyte development, natural killer cell activation, and T-lymphocyte receptor signalling. ZAP-70 is absent in normal mature B-cells and present in many B- and T-lymphocyte lymphomas. Chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL) can be either indolent and asymptomatic, or highly aggressive and requiring immediate chemotherapy. These two classifications of CLL/SLL have been shown to correlate with the mutational status of immunoglobulin heavy-chain variable-region (IgVH), therefore positive staining for the unmutated IgVH with Anti-ZAP-70 and negative staining for the mutated variant is very useful for the prognosis of CLL/SLL.
<b>Keywords</b>	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

## GENE INFORMATION

<b>Gene Name</b>	ZAP70 zeta-chain (TCR) associated protein kinase 70kDa [ Homo sapiens (human) ]
<b>Official Symbol</b>	ZAP70
<b>Synonyms</b>	ZAP70; zeta-chain (TCR) associated protein kinase 70kDa; SRK; STD; TZK; STCD; ZAP-70; tyrosine-protein kinase ZAP-70; syk-related tyrosine kinase; 70 kDa zeta-associated protein; 70 kDa zeta-chain associated protein; zeta-chain associated protein kinase, 70kD;
<b>Entrez Gene ID</b>	<a href="#">7535</a>
<b>Protein Refseq</b>	NP_001070
<b>UniProt ID</b>	<a href="#">P43403</a>
<b>Chromosome Location</b>	2q12
<b>Pathway</b>	Adaptive Immune System; B Cell Receptor Signaling Pathway; Generation of second messenger molecules; Immune System; Inflammatory Response Pathway; Interferon type I; NF-kappa B signaling pathway; Natural killer cell mediated cytotoxicity;
<b>Function</b>	ATP binding; non-membrane spanning protein tyrosine kinase activity; phosphotyrosine

binding; protein binding; protein tyrosine kinase activity; receptor binding;

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