

## Product datasheet for **TA333305S**

### ZAP70 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A phospho specific peptide corresponding to residues surrounding Y319 of human ZAP70
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	619
Gene Name:	zeta chain of T cell receptor associated protein kinase 70kDa
Database Link:	<a href="#">NP_001070</a> <a href="#">Entrez Gene 7535 Human</a> <a href="#">P43403</a>



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**Background:**

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.

**Synonyms:**

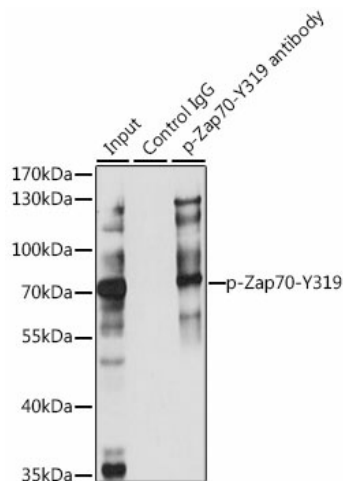
SRK; STCD; STD; TZK; ZAP-70

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

Natural killer cell mediated cytotoxicity, Primary immunodeficiency, T cell receptor signaling pathway

**Product images:**

Immunoprecipitation analysis of 200ug extracts of Jurkat cells, using 3 ug Phospho-ZAP70-Y319 pAb ([TA333305]). Western blot was performed from the immunoprecipitate using Phospho-ZAP70-Y319 pAb ([TA333305]) at a dilution of 1:1000. Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight.