

## Product datasheet for **TA333305**

### 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><br><a href="#">Entrez Gene 7535 Human</a><br><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:**

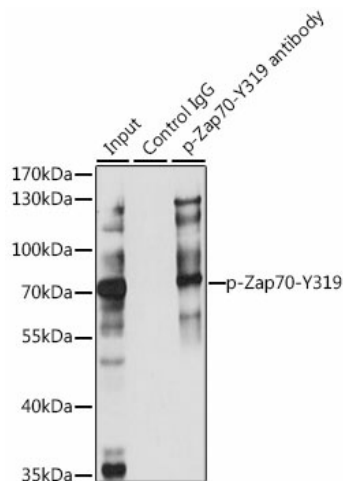
SRK; STCD; STD; TZK; ZAP-70

**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.