

## Product datasheet for **TA325921**

### SYK Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1:2000; IHC: 1:50-1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthesized peptide derived from human SYK
Formulation:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration:	lot specific
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	spleen tyrosine kinase
Database Link:	<a href="#">NP_003168</a> <a href="#">Entrez Gene 20963 Mouse</a> <a href="#">Entrez Gene 25155 Rat</a> <a href="#">Entrez Gene 6850 Human</a> <a href="#">P43405</a>



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**Background:**

The Src-related protein tyrosine kinases Lck p56 and Fyn p59 are critically involved in T cell antigen receptor (TCR)/CD3-triggered activation. T lymphocytes also express a second class of non-receptor protein tyrosine kinases which includes Syk p70 and ZAP p72. These kinases resemble the Src family protein tyrosine kinases in that they have a C-terminal catalytic domain, but differ in that they are characterized by two SH2 domains but no SH3 domains. Evidence for the involvement of the Syk/ZAP family proteins in T cell activation was suggested by the finding that Syk p72 kinase fused to the transmembrane and extracellular domains of CD7 and DC16, respectively, can induce complete T cell activation. In contrast, the ZAP p70 kinase was insufficient unless it was coaggregated with a Fyn p59-containing chimera, suggesting that regulation of ZAP p70 activity may require a functional interaction with Src family kinases.

**Synonyms:**

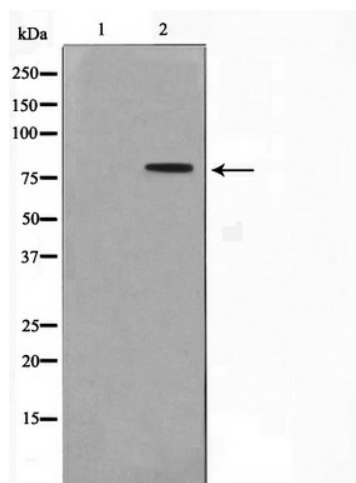
p72-Syk

**Protein Families:**

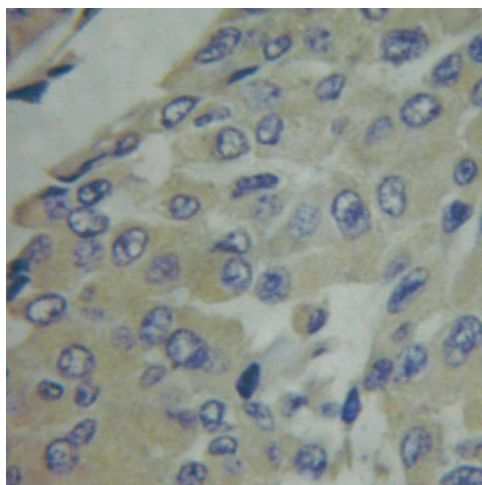
Druggable Genome, Protein Kinase

**Protein Pathways:**

B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity

**Product images:**

Western blot analysis of extracts from Jurkat cells, using SYK Antibody. The lane on the right is treated with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded breast carcinoma tissue, using SYK Antibody.?