

Product datasheet for **AP20699PU-N**

ZAP70 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of ZAP-70 protein. (region surrounding Ser313)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 70 kDa
Gene Name:	zeta chain of T cell receptor associated protein kinase 70kDa
Database Link:	<u>Entrez Gene 22637 Mouse</u> <u>Entrez Gene 301348 Rat</u> <u>Entrez Gene 7535 Human</u> <u>P43403</u>



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Background:

The activation of T lymphocytes by antigens is mediated by the T cell receptor (TCR) which is a multisubunit complex assembled from at least six different genes. The TCR subunits include the α and β chains, the CD3 γ , δ and ϵ chains and a ζ -containing homodimer or heterodimer. The disulfide-linked α - β heterodimer is responsible for antigen recognition, but the short five amino acid cytoplasmic domains of α and β are unlikely to be sufficient to couple to intracellular signaling pathways. In contrast, the structured features of the CD3 and ζ subunits suggest a role in signal transduction. Of these, the ζ chain, which is expressed as either a homodimer or heterodimer, has a short extracellular domain of only nine amino acids, but a larger 113 amino acid cytoplasmic domain. A tyrosine phosphoprotein, ZAP-70, has been identified that associates with ζ and undergoes tyrosine phosphorylation following TCR stimulation.

Synonyms:

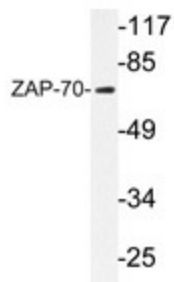
ZAP-70, ZAP 70, SRK

Protein Families:

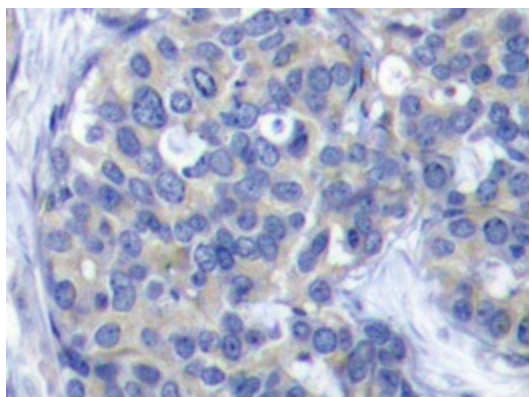
Druggable Genome, Protein Kinase

Protein Pathways:

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

Product images:


Western blot analyzes of ZAP-70 antibody (Cat.-No.: AP20699PU-N) in extracts from Jurkat cells.



Immunohistochemistry analyzes of ZAP-70 antibody (Cat.-No.: AP20699PU-N) in paraffin-embedded human breast carcinoma tissue.