



ZAP-70 (phospho Tyr315) rabbit pAb

Cat#: orb770406 (Manual)

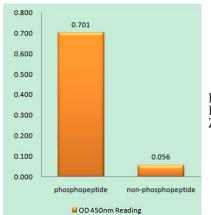
For research use only. Not intended for diagnostic use.

Product Name	ZAP-70 (phospho Tyr315) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ZAP-70 around the phosphorylation site of Tyr315. AA range:281-330
Specificity	Phospho-ZAP-70 (Y315) Polyclonal Antibody detects endogenous levels of ZAP-70 protein only when phosphorylated at Y315.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Tyrosine-protein kinase ZAP-70
Gene Name	ZAP70
Cellular localization	Cytoplasm . Cell membrane ; Peripheral membrane protein . In quiescent T- lymphocytes, it is cytoplasmic. Upon TCR activation, it is recruited at the plasma membrane by interacting with CD247/CD3Z. Colocalizes together with RHOH in the immunological synapse. RHOH is required for its proper localization to the cell membrane and cytoskeleton fractions in the thymocytes (By similarity).



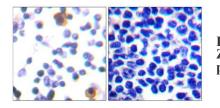
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Purification	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	60kD
Human Gene ID	7535
Human Swiss-Prot Number	P43403
Alternative Names	ZAP70; SRK; Tyrosine-protein kinase ZAP-70; 70 kDa zeta-chain associated protein; Syk-related tyrosine kinase
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. [provided by RefSeq, Jul 2008],

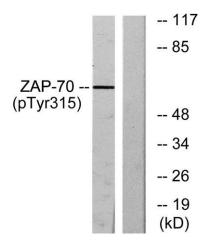


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ZAP-70 (Phospho-Tyr315) Antibody **biorbyt** Explore. Bioreagents.

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Immunohistochemistry analysis of paraffin-embedded human lymph node, using ZAP-70 (Phospho-Tyr315) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with Ca+ 40nM 30', using ZAP-70 (Phospho-Tyr315) Antibody. The lane on the right is blocked with the phospho peptide.