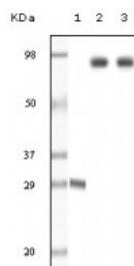


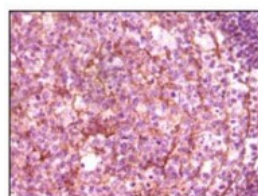


## ZAP70 Antibody [3D2A4]

CATALOG NUMBER: 32-237



Western blot analysis using Dynamin1 monoclonal antibody against truncated ZAP70 recombinant protein and Jurkat cell lysate.



Immunohistochemical analysis of paraffin - embedded human lymph showing cytoplasmic localization using ZAP70 antibody with DAB staining.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	ELISA, IHC, WB
<b>APPLICATIONS:</b>	Western Blot:1:500 - 1:2,000 IHC(P):1:500 - 1:2,000 IHC(F):1:500 - 1:2,000 ELISA:Propose dilution 1:10,000. Determining optimal working dilutions by titration test.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1205 - Jurkat Cell Lysate
<b>IMMUNOGEN:</b>	Ni-NTA purified truncated recombinant ZAP70 expressed in E. Coli strain BL21 (DE3).
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>BUFFER:</b>	Ascitic fluid containing 0.03% sodium azide.
<b>STORAGE CONDITIONS:</b>	ZAP70 monoclonal antibody can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	IgG1
<b>CONJUGATE:</b>	Unconjugated

### Additional Info

<b>ALTERNATE NAMES:</b>	SRK, 70 kDa zeta-chain associated proteinSRK, STD, TZK, STCD, ZAP-70
<b>ACCESSION NO.:</b>	P43403
<b>PROTEIN GI NO.:</b>	1177044
<b>OFFICIAL SYMBOL:</b>	ZAP70
<b>GENE ID:</b>	7535

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## Background

**BACKGROUND:** ZAP70(zeta-chain associated protein kinase), a 70 kDa member of the SYK tyrosine kinase family, plays a central role in lymphocyte activation and development, and is implicated in several immune disorders. Zap70 controls TCR(T-cell antigen receptor)-linked signal transduction pathways. Its key role in thymocytes development and mature T lymphocytes activation has been illustrated by the characterization of several human immunodeficiencies presenting with mutations in the zap-70 gene. ZAP-70 is also expressed in several types of B-cell neoplasm and is easily detected by immunohistochemistry, providing a useful prognostic marker in patients with chronic lymphocytic leukaemia.

- REFERENCES:**
- 1) Sigal Gelkop , Gerrald D. Gish, Yael Babichev J Immunol. 2005 Dec 15;175(12):8123-32.
  - 2) Joaquim Carreras , Neus Villamor ,Lluis Colomo J Pathol. 2005 Mar;205(4):507-13.
  - 3) Claire Hivroz Med Sci (Paris). 2005 Feb;21(2):150-5.

**FOR RESEARCH USE ONLY**

December 12, 2016