

## anti- ZAP70 antibody

### Product Information

Catalog No.:	FNab09583
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

Tyrosine kinase that plays an essential role in regulation of the adaptive immune response. Regulates motility, adhesion and cytokine expression of mature T-cells, as well as thymocyte development. Contributes also to the development and activation of primary B-lymphocytes. When antigen presenting cells (APC) activate T-cell receptor (TCR), a series of phosphorylations lead to the recruitment of ZAP70 to the doubly phosphorylated TCR component CD247/CD3Z through ITAM motif at the plasma membrane. This recruitment serves to localize to the stimulated TCR and to relieve its autoinhibited conformation. Release of ZAP70 active conformation is further stabilized by phosphorylation mediated by LCK. Subsequently, ZAP70 phosphorylates at least 2 essential adapter proteins: LAT and LCP2. In turn, a large number of signaling molecules are recruited and ultimately lead to lymphokine production, T-cell proliferation and differentiation. Furthermore, ZAP70 controls cytoskeleton modifications, adhesion and mobility of T-lymphocytes, thus ensuring correct delivery of effectors to the APC. ZAP70 is also required for TCR-CD247/CD3Z internalization and degradation through interaction with the E3 ubiquitin-protein ligase CBL and adapter proteins SLA and SLA2. Thus, ZAP70 regulates both T-cell activation switch on and switch off by modulating TCR expression at the T-cell surface. During thymocyte development, ZAP70 promotes survival and cell-cycle progression of developing thymocytes before positive selection (when cells are still CD4/CD8 double negative). Additionally, ZAP70-dependent signaling pathway may also contribute to primary B-cells formation and activation through B-cell receptor (BCR).

### Wuhan Fine Biotech Co., Ltd.

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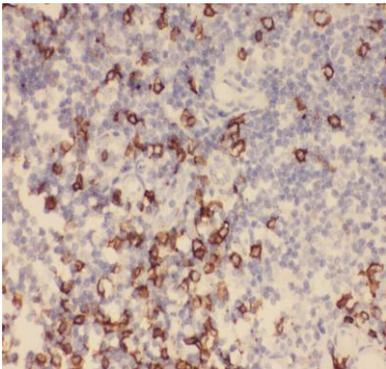
Fax: (0086)027-87800889 [www.fn-test.com](http://www.fn-test.com)

### Immunogen information

Immunogen: zeta-chain(TCR) associated protein kinase 70kDa  
Synonyms: 70 kDa zeta associated protein, FLJ17670, FLJ17679, SRK, STD, Syk related tyrosine kinase, Tyrosine protein kinase ZAP 70, TZK, ZAP 70, ZAP70  
Observed MW: 70 kDa  
UniprotID : P43403

### Application

Reactivity: Human, Mouse  
Tested Application: ELISA, IHC, WB, FC, IP, IF  
Recommended dilution: WB: 1:1000-1:10000; IHC: 1:20-1:200; IP: 1:500-1:5000; IF: 1:20-1:200  
Image:



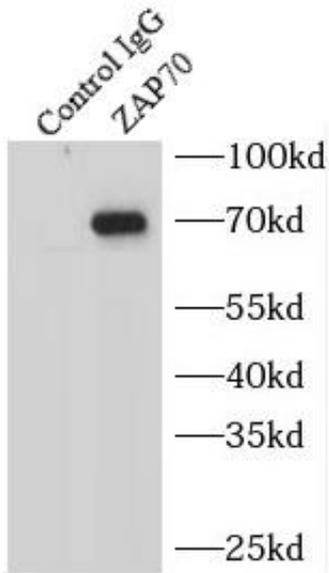
Immunohistochemistry of paraffin-embedded human lymphoma using FNab09583(ZAP70 antibody) at dilution of 1:50

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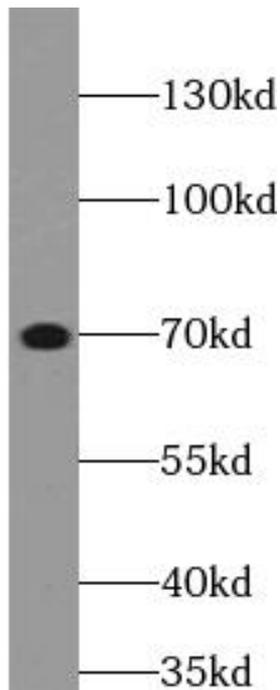
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IP Result of anti-ZAP70 (IP:FNab09583, 4ug;  
Detection:FNab09583 1:1000) with Jurkat cells  
lysate 3200ug.



Jurkat cells were subjected to SDS PAGE followed  
by western blot with FNab09583(ZAP70  
Antibody) at dilution of 1:3000