

产品货号: AMRe20026



产品概述 (Summary)

产品名称 (Production Name) ZAP70 (16U9) Rabbit Monoclonal Antibody

描述 (**Description**) Recombinant rabbit monoclonal antibody

宿主 (Host) Rabbit

应用 (Application) WB,ICC/IF,FC

种属反应性 (Reactivity) Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Monoclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New 储存溶液 (Buffer)

type preservative N and 0.05% protective protein.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) ZAP70

Tyrosine-protein kinase ZAP-70; 70 kDa zeta-chain associated protein; Syk-别名 (Alternative Names)

related tyrosine kinase; ZAP70; SRK;

基因 ID (Gene ID) 7535.0

蛋白 ID (SwissProt ID) P43403.A synthetic peptide of human ZAP70

产品应用(Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,ICC/IF 1:100-1:200,FC 1:20-1:50

蛋白分子量 (Molecular Weight) 70kDa

研究背景 (Background)

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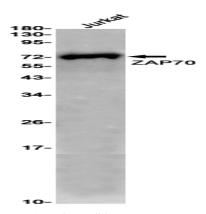


The Syk family protein tyrosine kinase Zap-70 is expressed in T and NK cells and plays a critical role in mediating T cell activation in response to T cell receptor (TCR) engagement. Following TCR engagement, Zap-70 is rapidly phosphorylated on several tyrosine residues through autophosphorylation and transphosphorylation by the Src family tyrosine kinase Lck. 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 serie 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 localization 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).

研究领域 (Research Area)

Immunology

图片 (Image Data)



Western blot detection of ZAP70 in Jurkat cell lysates using ZAP70 antibody(1:1000 diluted).

注意事项 (Note)

For research use only.

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