

产品名称: ITK (14Z13) Rabbit Monoclonal Antibody
产品货号: AMRe12792



产品概述 (Summary)

产品名称 (Production Name)	ITK (14Z13) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IP
种属反应性 (Reactivity)	Human

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
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ITK EMT; Homolog of mouse T cell itk/tsk; IL 2 inducible T cell kinase; Itk; Kinase
别名 (Alternative Names)	EMT; LPFS1; LYK; PSCTK2; T cell specific kinase; TSK; Tyrosine protein kinase ITK/TSK;
基因 ID (Gene ID)	3702.0
蛋白 ID (SwissProt ID)	Q08881.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	72kDa

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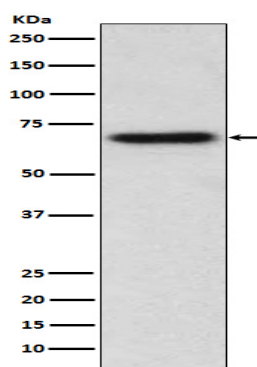
研究背景 (Background)

Interleukin-2 inducible T-cell kinase (Itk, Emt or Tsk) is a member of the non-receptor protein tyrosine kinases. Family members of Itk include Tec, Btk, Rlk and Bmx and are all defined by a common structure: an amino-terminal PH domain, a Tec-homology domain and a SH3 and SH2 domain followed by a carboxy-terminal kinase domain. Tec, Rlk and Itk are expressed in T cells and activated in response to T cell receptor (TCR) engagement. Tyrosine kinase that plays an essential role in regulation of the adaptive immune response. Regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. When antigen presenting cells (APC) activate T-cell receptor (TCR), a series of phosphorylation lead to the recruitment of ITK to the cell membrane, in the vicinity of the stimulated TCR receptor, where it is phosphorylated by LCK. Phosphorylation leads to ITK autophosphorylation and full activation. Once activated, phosphorylates PLCG1, leading to the activation of this lipase and subsequent cleavage of its substrates. In turn, the endoplasmic reticulum releases calcium in the cytoplasm and the nuclear activator of activated T-cells (NFAT) translocates into the nucleus to perform its transcriptional duty. Phosphorylates 2 essential adapter proteins: the linker for activation of T-cells/LAT protein and LCP2. Then, a large number of signaling molecules such as VAV1 are recruited and ultimately lead to lymphokine production, T-cell proliferation and differentiation (PubMed:12186560, PubMed:12682224, PubMed:21725281). Required for TCR-mediated calcium response in gamma-delta T-cells, may also be involved in the modulation of the transcriptomic signature in the Vgamma2-positive subset of immature gamma-delta T-cells (By similarity). Phosphorylates TBX21 at 'Tyr-530' and mediates its interaction with GATA3 (By similarity).

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)



Western blot analysis of ITK expression in Jurkat cell lysate.

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注意事项 (Note)

For research use only .