

产品货号: AMRe05864

产品概述 (Summary)

产品名称 (Production Name) Phospho-BTK (Y551) (1W7) Rabbit Monoclonal Antibody

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

宿主 (Host)Rabbit应用 (Application)WB,ICC/IF种属反应性 (Reactivity)Human

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Phosphorylated

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.

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New

储存溶液 (Buffer) 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) BTK

BTK, AGMX1, AT, ATK, XLA, PSCTK1, B-cell progenitor kinase, BPK, Bruton 別名 (Alternative Names)

tyrosine kinase, Tyrosine-protein kinase BTK, IMD1;

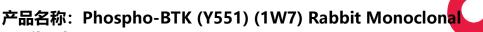
基因 ID (Gene ID) 695.0 **蛋白 ID (SwissProt ID)** Q06187.

产品应用(Application)

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

蛋白分子量 (Molecular Weight) 76kDa

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Antibody

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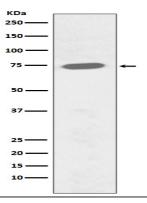
研究背景 (Background)

Bruton's tyrosine kinase (Btk) is a member of the Btk/Tec family of cytoplasmic tyrosine kinases. Like other Btk family members, it contains a pleckstrin homology (PH) domain and Src homology SH3 and SH2 domains. Btk plays an important role in B cell development. Activation of B cells by various ligands is accompanied by Btk membrane translocation mediated by its PH domain binding to phosphatidylinositol-3,4,5-trisphosphate. Non-receptor tyrosine kinase indispensable for B lymphocyte development, differentiation and signaling. Binding of antigen to the B-cell antigen receptor (BCR) triggers signaling that ultimately leads to B-cell activation. After BCR engagement and activation at the plasma membrane, phosphorylates PLCG2 at several sites, igniting the downstream signaling pathway through calcium mobilization, followed by activation of the protein kinase C (PKC) family members. PLCG2 phosphorylation is performed in close cooperation with the adapter protein B-cell linker protein BLNK. BTK acts as a platform to bring together a diverse array of signaling proteins and is implicated in cytokine receptor signaling pathways. Plays an important role in the function of immune cells of innate as well as adaptive immunity, as a component of the Toll-like receptors (TLR) pathway. The TLR pathway acts as a primary surveillance system for the detection of pathogens and are crucial to the activation of host defense. Especially, is a critical molecule in regulating TLR9 activation in splenic B-cells. Within the TLR pathway, induces tyrosine phosphorylation of TIRAP which leads to TIRAP degradation. BTK plays also a critical role in transcription regulation. Induces the activity of NF-kappa-B, which is involved in regulating the expression of hundreds of genes. BTK is involved on the signaling pathway linking TLR8 and TLR9 to NF-kappa-B. Transiently phosphorylates transcription factor GTF2I on tyrosine residues in response to BCR. GTF2I then translocates to the nucleus to bind regulatory enhancer elements to modulate gene expression. ARID3A and NFAT are other transcriptional target of BTK. BTK is required for the formation of functional ARID3A DNA-binding complexes. There is however no evidence that BTK itself binds directly to DNA. BTK has a dual role in the regulation of apoptosis.

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)



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Western blot analysis of Phospho-BTK (Y551) expression in Ramos cell lysate treated with Pervanadate.

注意事项 (Note)

For research use only.

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