

Recombinant Human BLNK protein ab104120

1 图像

描述	
产品名称	重组人BLNK蛋白
纯度	> 90 % SDS-PAGE. Purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.
表达系统	Escherichia coli
Accession	<u>Q8WV28</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<div>MGSSHHHHHH SSGLVPRGSH MDKLNKITVP</div> <div>ASQKLRQLQK MVHDIKNEG GIMNKIKKLK</div> <div>VKAPPSVPRR DYASESPADE EQQWSDDFDS</div> <div>DYENPDEHSD SEMYVMPAEE NADDSYEPPP</div> <div>VEQETRPVHP ALPFARGEYI DNRSSQRHSP</div> <div>PFSKTLPSKP SWPSEKARLT STLPA TALQ</div> <div>KPQVPPKPKG LLEDEADYVV PVEDNDENYI</div> <div>HPTESSSPPP EKAPMVNRST KPNSSTPASP</div> <div>PGTASGRNSG AWETKSPPPA APSPLPRAGK</div> <div>KPTTPLK TTP VASQQNASSV CEEKPIPAER</div> <div>HRGSSHRQEA VQSPVFPPAQ KQIHQKPIPL</div> <div>PRFTEGGNPT VDGPLPSFSS NSTISEQEAG</div> <div>VLCKPWYAGA CDRKSAEEAL HRSNKDGSFL</div> <div>IRKSSGHDSK QPYTLVVFFN KRVYNIPVRF</div> <div>IEATKQYALG RKKNGEEYFG SVAEIIRNHQ</div> <div>HSPLVLIDSQ NNTKDSTRLK YAVKVS</div>
预测分子量	53 kDa including tags
氨基酸	1 to 456
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab104120** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
	Mass Spectrometry
质谱法	MALDI-TOF
形式	Liquid

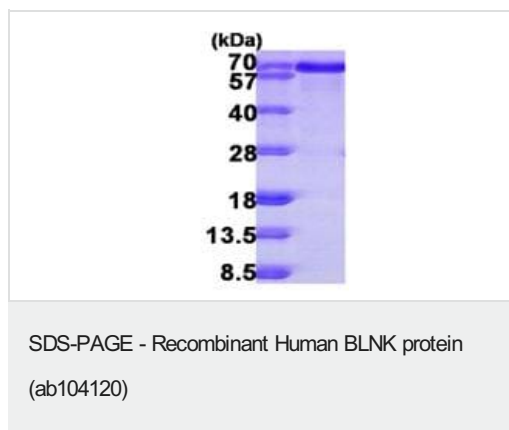
制备和贮存

稳定性和存储	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	pH: 8.00
	Constituents: 0.00174% PMSF, 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

常规信息

功能	Functions as a central linker protein that bridges kinases associated with the B-cell receptor (BCR) with a multitude of signaling pathways, regulating biological outcomes of B-cell function and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidylinositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition (By similarity). Plays an important role in BCR-induced B-cell apoptosis.
组织特异性	Expressed in B-cell lineage and fibroblast cell lines (at protein level). Highest levels of expression in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon.
疾病相关	Defects in BLNK are the cause of agammaglobulinemia type 4 (AGM4) [MIM:613502]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life.
序列相似性	Contains 1 SH2 domain.
翻译后修饰	Following BCR activation, phosphorylated on tyrosine residues by SYK and LYN. When phosphorylated, serves as a scaffold to assemble downstream targets of antigen activation, including PLCG1, VAV1, GRB2 and NCK1. Phosphorylation of Tyr-84, Tyr-178 and Tyr-189 facilitates PLCG1 binding. Phosphorylation of Tyr-96 facilitates BTK binding. Phosphorylation of Tyr-72 facilitates VAV1 and NCK1 binding. Phosphorylation is required for both Ca(2+) and MAPK signaling pathways.
细胞定位	Cytoplasm. Cell membrane. BCR activation results in the translocation to membrane fraction.

图片



15% SDS-PAGE analysis of ab104120 (3 µg).

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