

Recombinant Human BLNK protein ab104120

画像数 1

製品の詳細

製品名	Recombinant Human BLNK protein
精製度	> 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.
発現系	Escherichia coli
アクセッション番号	<u>Q8WV28</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<p>MGSSHHHHHH SSGLVPRGSH MDKLNKITVP</p> <p>ASQKLRQLQK MVHDIKNNEG GIMNKIKKLK</p> <p>VKAPPSVPRR DYASESPADE EQQWSDDFDS</p> <p>DYENPDEHSD SEMYVMPAEE NADDSYEPPP</p> <p>VEQETRPVHP ALPFARGEYI DNRSSQRHSP</p> <p>PFSKTLPSKP SWPSEKARLT STLPA TALQ</p> <p>KPQVPPKPKG LLEDEADYVV PVEDNDENYI</p> <p>HPTESSSPPP EKAPMVNRST KPNSSTPASP</p> <p>PGTASGRNSG AWETKSPPPA APSPLPRAGK</p> <p>KPTTPLK TTP VASQQNASSV CEEKPIPAER</p> <p>HRGSSHRQEA VQSPVFPPAQ KQIHQKPIPL</p> <p>PRFTEGGNPT VDGPLPSFSS NSTISEQEAG</p> <p>VLCKPWYAGA CDRKSAEEAL HRSNKDGSFL</p> <p>IRKSSGHDSK QPYTLVVFFN KRVYNIPVRF</p> <p>IEATKQYALG RKKNGEEYFG SVAEIIRNHQ</p> <p>HSPLVLIDSQ NNTKDSTRLK YAVKVS</p>

予測される分子量	53 kDa including tags
領域	1 to 456
タグ	His tag N-Terminus

特性

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.

アプリケーション

SDS-PAGE

Mass Spectrometry

質量分析

MALDI-TOF

製品の状態

Liquid

前処理および保存

保存方法および安定性

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

関連情報

機能

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.

組織特異性

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.

関連疾患

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.

配列類似性

Contains 1 SH2 domain.

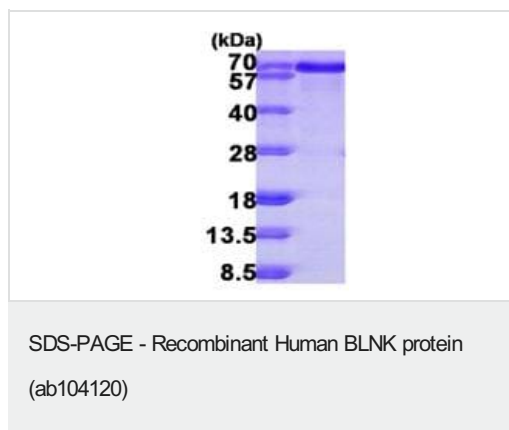
翻訳後修飾

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.

細胞内局在

Cytoplasm. Cell membrane. BCR activation results in the translocation to membrane fraction.

画像



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

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