abcam

Product datasheet

Recombinant human ABL1 protein ab69810

1 References 5 图像

描述

产品名称	重组人ABL1蛋白
生物活性	Specific activity: 871 nmol/min/mg
纯度	> 70 % Affinity purified. Purified by affinity chromatography
表达系统	Baculovirus infected Sf9 cells
Accession	P00519
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	EALQRPVASD FEPQGLSEAA RWNSKENLLA GPSENDPNLF VALYDFVASG DNTLSITKGE KLRVLGYNHN GEWCEAQTKN GQGWVPSNYI TPVNSLEKHS WYHGPVSRNA AEYLLSSGIN GSFLVRESES SPGQRSISLR YEGRVYHYRI NTASDGKLYV SSESRFNTLA ELVHHHSTVA DGLITTLHYP APKRNKPTVY GVSPNYDKWE MERTDITMKH KLGEGHFGEV YEGVWKKYSL TVAVKTLKED TMEVEEFLKE AAVMKEIKHP NLVQLLGVCT REPPFYIITE FMTYGNLLDY LRECNRQEVN AVVLLYMATQ ISSAMEYLEK KNFIHRDLAA RNCLVGENHL VKVADFGLSR LMTGDTYTAH AGAKFPIKWT APESLAYNKF SIKSDVWAFG VLLWEIATYG MSPYPGIDLS QVYELLEKDY RMERPEGCPE KVYELMRACW QWNPSDRPSF AEIHQAFETM FQESSISDEV EKELGKQGVR GAVSTLLQAP ELPTKTRTSR RAAEHRDTTD VPEMPHSKGQ GESDPLDHEP AVSPLLPRKE RGPPEGGLNE DERLLPKDKK TNLFSALIKK KKKTAPTPPK RSSSFREMDG QPERRGAGEE EGRDISNGAL AFTPLDTADP AKSPKPSNGA GVPNGALRES GGSGFRSPHL WKKSSTLTSS RLATGEEEGG GSSSKRFLRS CSASCVPHGA KDTEWRSVTL PRDLQSTGRQ

FDSSTFGGHK SEKPALPRKR AGENRSDQVT
RGTVTPPPRL VKKNEEAADE VFKDIMESSP
GSSPPNLTPK PLRRQVTVAP ASGLPHKEEA
GKGSALGTPA AAEPVTPTSK AGSGAPGGTS
KGPAEESRVR RHKHSSESPG RDKGKLSRLK
PAPPPPPAAS AGKAGGKPSQ SPSQEAAGEA
VLGAKTKATS LVDAVNSDAA KPSQPGEGLK
KPVLPATPKP QSAKPSGTPI SPAPVPSTLP
SASSALAGDQ PSSTAFIPLI STRVSLRKTR
QPPERIASGA ITKGVVLDST EALCLAISRN
SEQMASHSAV LEAGKNLYTF CVSYVDSIQQ
MRNKFAFREA INKLENNLRE LQICPATAGS
GPAATQDFSK LLSSVKEISD IVQR

预测分子量	135 kDa
氨基酸	27 to 1130
标签	His tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab69810** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Liquid
补充说明	**ab204848** (ABL1 peptide) can be utilized as a substrate for assessing Kinase activity Previously labelled as c Abl.

制备和贮存

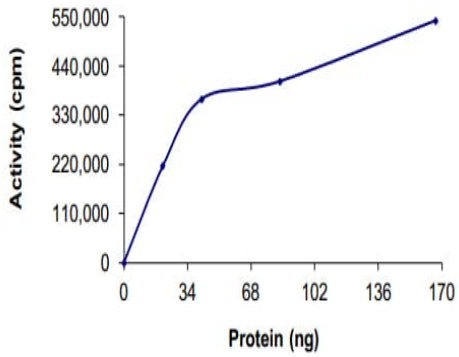
稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能	Protein kinase that regulates key processes linked to cell growth and survival. Regulates cytoskeleton remodeling during cell differentiation, cell division and cell adhesion. Localizes to dynamic actin structures, and phosphorylates CRK and CRKL, DOK1, and other proteins controlling cytoskeleton dynamics. Regulates DNA repair potentially by activating the proapoptotic pathway when the DNA damage is too severe to be repaired. Phosphorylates PSMA7 that leads to an inhibition of proteasomal activity and cell cycle transition blocks.
组织特异性	Widely expressed.
疾病相关	Note=A chromosomal aberration involving ABL1 is a cause of chronic myeloid leukemia.

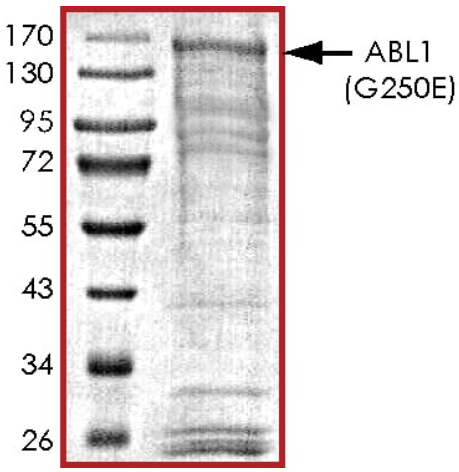
	Translocation t(9;22)(q34;q11) with BCR. The translocation produces a BCR-ABL found also in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL).
序列相似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. ABL subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
翻译后修饰	Phosphorylated by PRKDC (By similarity). DNA damage-induced activation of c-Abl requires the function of ATM and Ser-446 phosphorylation (By similarity). Phosphorylation on Thr-735 is required for binding 14-3-3 proteins for cytoplasmic translocation. Isoform IB is myristoylated on Gly-2.
细胞定位	Cytoplasm > cytoskeleton. Nucleus. Sequestered into the cytoplasm through interaction with 14-3-3 proteins and Nucleus membrane. The myristoylated c-ABL protein is reported to be nuclear.

图片



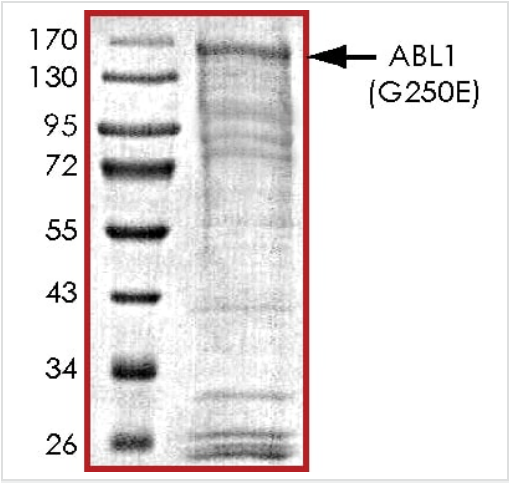
Functional Studies - Recombinant human ABL1 protein (ab69810)

The specific activity of ABL1 (ab69810) was determined to be 765.8 nmol/min/mg as per activity assay protocol



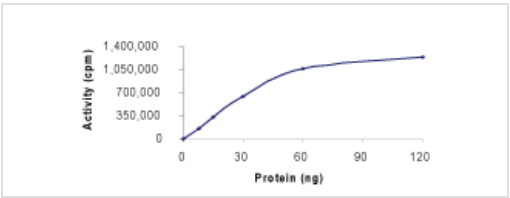
SDS-PAGE - Recombinant human ABL1 protein (ab69810)

SDS PAGE analysis of ab69810



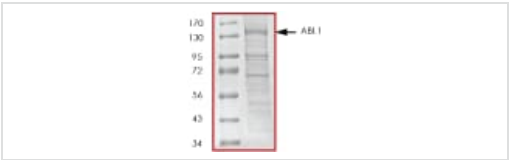
SDS-PAGE - Recombinant human ABL1 protein (ab69810)

SDS PAGE analysis of ab69810



Functional Studies - Recombinant human ABL1 protein (ab69810)

Kinase activity assay of ab69810. The specific activity of c-Abl was determined to be 871 nmol/min/mg.



SDS-PAGE - Recombinant human ABL1 protein (ab69810)

SDS-PAGE of ab69810. Molecular weight 135kDa.

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