abcam

Product datasheet

Recombinant human c Abl protein ab69810

画像数 2

製品の概要

製品名	Recombinant human c Abl protein
タンパク質長	Protein fragment

法規制情報

カルタヘナ法

製品の詳細

由来	Recombinant
由来	Baculovirus infected Sf9 cells
アミノ酸配列	
アクセッション番号	P00519
生物種	Human
分子量	135 kDa
領域	27 to 1130
タグ	His tag N-Terminus

特性

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.

生理活性	Specific activity: 871 nmol/min/mg
アプリケーション	Functional Studies
	SDS-PAGE
製品の状態	Liquid
備考	ab204848 (c Abl peptide) can be utilized as a substrate for assessing Kinase activity

前処理および保存

保存方法および安定性

Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

Preservative: None
Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

機能

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.

組織特異性

Widely expressed.

関連疾患

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).

配列類似性

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.

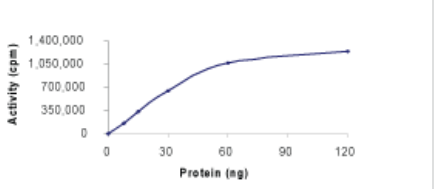
翻訳後修飾

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.

細胞内局在

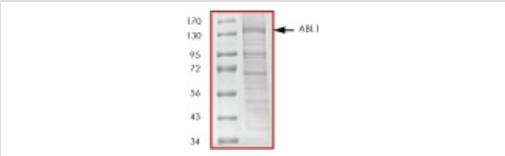
Cytoplasm > cytoskeleton. Nucleus. Sequestered into the cytoplasm through interaction with 14-3-3 proteins and Nucleus membrane. The myristoylated c-ABL protein is reported to be nuclear.

画像



Functional Studies - c Abl protein (His tag) (ab69810)

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



SDS-PAGE - c Abl protein (His tag) (ab69810)

SDS-PAGE of ab69810. Molecular weight 135kDa.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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