abcam

Product datasheet

ABL1 peptide ab204848

製品の詳細

製品名	ABL1 peptide
精製度	> 97 % HPLC.
Animal free	No
由来	Synthetic
配列	EAIYAAPFAKKK

特性

Our **Abpromise guarantee** covers the use of **ab204848** 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	HPLC
製品の状態	Lyophilized
備考	ab204848 (ABL1 peptide) can be utilized as a substrate for the following active protein kinases: **ab69810** (Active human ABL1 protein fragment) **ab51259** (Active human ABL2 protein fragment) **ab179494** (Active human LTK protein fragment) **ab177265** (Active human GLK protein fragment) Previously labelled as c Abl.

前処理および保存

保存方法および安定性	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
再構成	Dilute peptide in distilled water to a final concentration of 1mg/ml

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.

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