

Product datasheet

Human Chk2 peptide ab6088

製品の概要

製品名 Human Chk2 peptide

製品の詳細

由来 Synthetic

アミノ酸配列

生物種 Human

配列 SRESDV EAQQSHGSSAC Amino acids 2-18 of human Chk2.

領域 2 to 18

特性

Our [Abpromise guarantee](#) covers the use of **ab6088** 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 Blocking

製品の状態 Liquid

備考 Stable for one year.

前処理および保存

保存方法および安定性 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: 0.02% Sodium Azide

Constituents: 0.1% BSA, PBS, pH 7.2

関連情報

機能 Regulates cell cycle checkpoints and apoptosis in response to DNA damage, particularly to DNA double-strand breaks. Inhibits CDC25C phosphatase by phosphorylation on 'Ser-216', preventing the entry into mitosis. May also play a role in meiosis. Regulates the TP53 tumor suppressor through phosphorylation at 'Thr-18' and 'Ser-20'.

| | |
|--------------|--|
| 組織特異性 | High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues. |
| 関連疾患 | Defects in CHEK2 are associated with Li-Fraumeni syndrome 2 (LFS2) [MIM:609265]; a highly penetrant familial cancer phenotype usually associated with inherited mutations in p53/TP53. Defects in CHEK2 may be a cause of susceptibility to prostate cancer (PC) [MIM:176807]. It is a malignancy originating in tissues of the prostate. Most prostate cancers are adenocarcinomas that develop in the acini of the prostatic ducts. Other rare histopathologic types of prostate cancer that occur in approximately 5% of patients include small cell carcinoma, mucinous carcinoma, prostatic ductal carcinoma, transitional cell carcinoma, squamous cell carcinoma, basal cell carcinoma, adenoid cystic carcinoma (basaloid), signet-ring cell carcinoma and neuroendocrine carcinoma. Defects in CHEK2 are found in some patients with osteogenic sarcoma (OSRC) [MIM:259500]. |
| 配列類似性 | Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CHK2 subfamily. Contains 1 FHA domain. Contains 1 protein kinase domain. |
| 翻訳後修飾 | Phosphorylated by PLK4. |
| 細胞内局在 | Nucleus; Nucleus. Isoform 10 is present throughout the cell and Nucleus > PML body. Nucleus > nucleoplasm. Recruited into PML bodies together with TP53. |

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