

# Recombinant human Chk2 protein ab90275

## 描述

产品名称	重组人Chk2蛋白
生物活性	> 100,000 U/mg (1 Unit is defined as 1 picomole phosphate transferred to synthetic peptide KKKVSRSGLYRSPSPENLNRPR per min at 30 °C).
纯度	> 95 % SDS-PAGE. Purified by Ni-NTA agarose chromatography.
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human

## 技术指标

Our **Abpromise guarantee** covers the use of **ab90275** 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	> 100,000 U/mg (1 Unit is defined as 1 picomole phosphate transferred to synthetic peptide KKKVSRSGLYRSPSPENLNRPR per min at 30 °C). Produced using a non-baculovirus expression system.

## 制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: Protease inhibitor, 0.0038% EGTA, 0.154% DTT, 0.79% Tris HCl, 9.234% Sucrose, 0.87% Sodium chloride  Protease inhibitor cocktail  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## 常规信息

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功能	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'.
组织特异性	High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues.
疾病相关	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].
序列相似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CHK2 subfamily. Contains 1 FHA domain. Contains 1 protein kinase domain.
翻译后修饰	Phosphorylated by PLK4.
细胞定位	Nucleus; Nucleus. Isoform 10 is present throughout the cell and Nucleus > PML body. Nucleus > nucleoplasm. Recruited into PML bodies together with TP53.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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