abcam

Product datasheet

Recombinant Human p21 protein ab56278

2 References 2 图像

描述

产**品名称** 重组人p21蛋白

纯**度** > 80 % SDS-PAGE.

表达系统 Escherichia coli

蛋白长度 Full length protein

无动物成分 No

性质 Recombinant

种属 Human

标签 GST tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of ab56278 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

Western blot

形式 Liquid

制备和贮存

稳**定性和存**储 Shipped on dry ice. Upon delivery aliquot and store at -80℃. Avoid freeze / thaw cycles.

pH: 7.50

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

常规信息

功能 May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular

proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity,

preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.

组织特异性 Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.

序列相似性 Belongs to the CDI family.

结**构域** The PIP-box K+4 motif mediates both the interaction with PCNA and the recuitment of the

DCX(DTL) complex: while the PIP-box interacts with PCNA, the presence of the K+4 submotif,

recruits the DCX(DTL) complex, leading to its ubiquitination.

The C-terminal is required for nuclear localization of the cyclin D-CDK4 complex.

翻译后修饰 Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.

Phosphorylation at Ser-114 by GSK3-beta enhances ubiquitination by the DCX(DTL) complex.

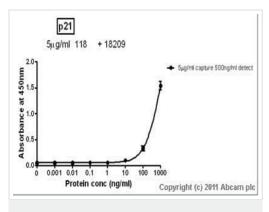
Ubiquitinated by MKRN1; leading to polyubiquitination and 26S proteasome-dependent degradation. Ubiquitinated by the DCX(DTL) complex, also named CRL4(CDT2) complex, leading to its degradation during S phase or following UV irradiation. Ubiquitination by the

DCX(DTL) complex is essential to control replication licensing and is PCNA-dependent: interacts with PCNA via its PIP-box, while the presence of the containing the 'K+4' motif in the PIP box,

recruit the DCX(DTL) complex, leading to its degradation.

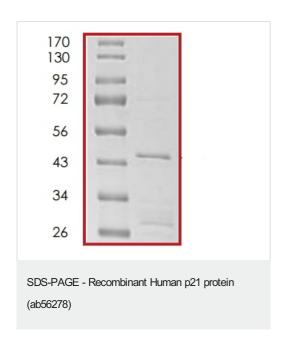
细胞定位 Cytoplasm. Nucleus.

图片



Sandwich ELISA - Recombinant Human p21 protein (ab56278)

Standard curve for p21 (Analyte: ab56278); dilution range 1pg/ml to 1 μ g/ml using Capture Antibody Mouse monoclonal [AC8.3] to p21 (ab118) at 5 μ g/ml and Detector Antibody Rabbit polyclonal to p21 (ab18209) at 0.5 μ g/ml.



SDS-PAGE analysis of ab56278 with molecular weight markers. Approximate molecular weight 46kDa.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.cn/abpromise or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors