

Anti-p21 antibody [HUGO291] ab107099

★★★★☆ [3 Abreviews](#) [24 References](#) [5 图像](#)

概述

产品名称	Anti-p21抗体[HUGO291]
描述	大鼠单克隆抗体[HUGO291] to p21
宿主	Rat
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Human
免疫原	Recombinant full length protein corresponding to p21. HIS-GST-mp21
阳性对照	Mouse skin papilloma.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 1% BSA
纯度	IgG fraction
克隆	单克隆
克隆编号	HUGO291
同种型	IgG2a

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab107099于以下的经测试应用

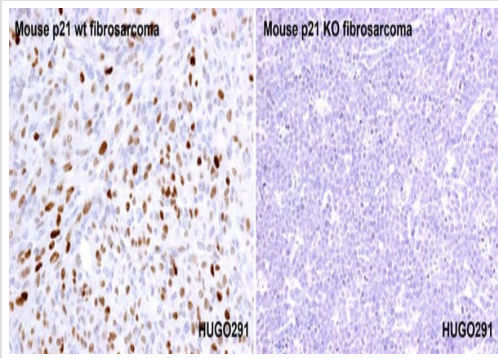
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/50. Predicted molecular weight: 18 kDa.
IHC-P	★★★★★ (1)	1/100.

靶标

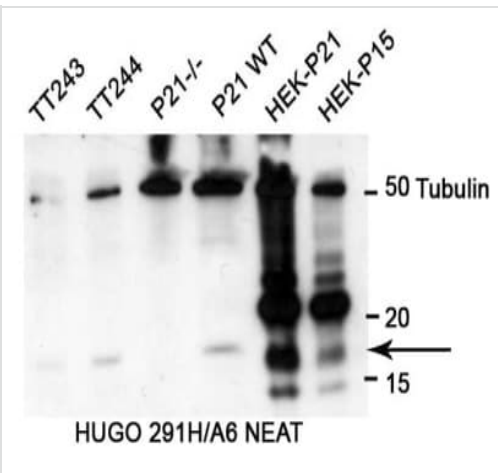
功能	May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. 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 recruitment 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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p21 antibody [HUGO291] (ab107099)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse p21WT fibrosarcoma and mouse p21KO fibrosarcoma tissue sections labeling p21 with ab107099.

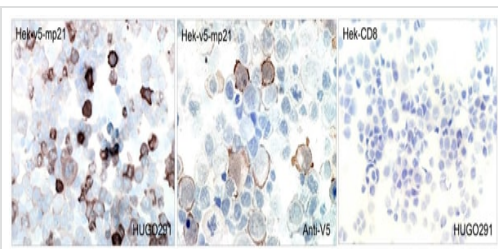


Western blot - Anti-p21 antibody [HUGO291] (ab107099)

All lanes : Anti-p21 antibody [HUGO291] (ab107099) at 1/50 dilution

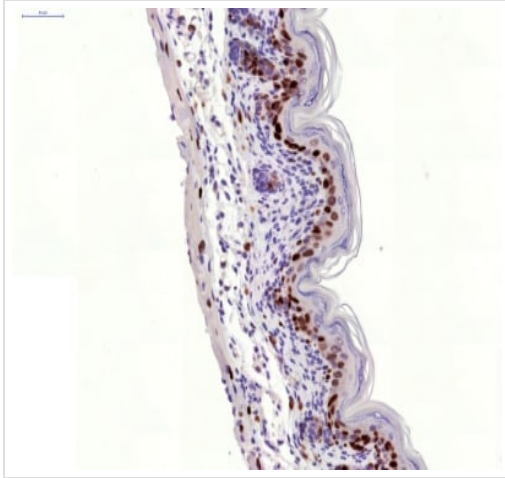
- Lane 1** : TT243 MEFs (non-irradiated) at 18.83 μ g
- Lane 2** : TT243 MEFs (irradiated with 10 Gy) at 20.8 μ g
- Lane 3** : p21-/- KO MEFs at 60 μ g
- Lane 4** : P21 WT MEFs at 75 μ g
- Lane 5** : HEK-V5-mp21 transfected cells at 20 μ g
- Lane 6** : HEK-V5-mp15 transfected cells at 20 μ g

Predicted band size: 18 kDa



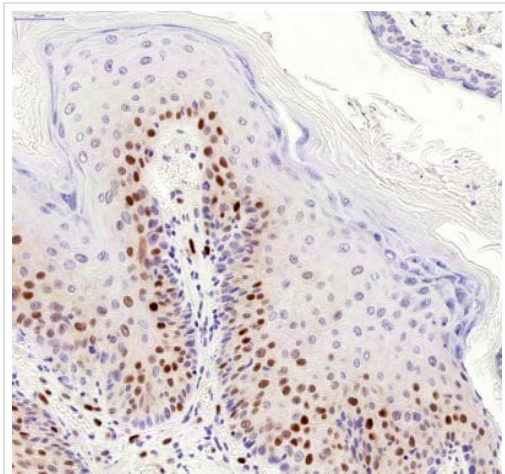
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p21 antibody [HUGO291] (ab107099)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Hek-V5-mp21 transfected cells labelling p21 with ab107099. Nuclear staining was observed in Hek-V5-mp21 cytopins. Labeling with the anti-V5 mAb confirmed the efficiency of transfection. Cytopsin preparation of human CD8 was used as a negative control.



ab107099 at 1/100 staining p21 in conditional TRF1 knock out Mouse skin tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p21 antibody [HUGO291] (ab107099)



ab107099 at 1/100 staining p21 in Mouse skin papilloma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p21 antibody [HUGO291] (ab107099)

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