

Anti-p73 antibody [EPR19560] - ChIP Grade ab202474

敲除验证
重组
RabMAb

2 References 6 图像

概述

产品名称	Anti-p73抗体[EPR19560] - ChIP Grade
描述	兔单克隆抗体[EPR19560] to p73 - ChIP Grade
宿主	Rabbit
经测试应用	适用于: WB, ChIP, IP
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: MCF7, MDA-MB-231 HT-29, HEK-293T, HT-1376 and HepG2 whole cell lysates. IP: HepG2 whole cell lysate. ChIP: Chromatin from HCT 116 cells treated with 1mM Hydroxyurea for 16h and non-treated cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR19560

同种型

IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab202474 于以下的经测试应用

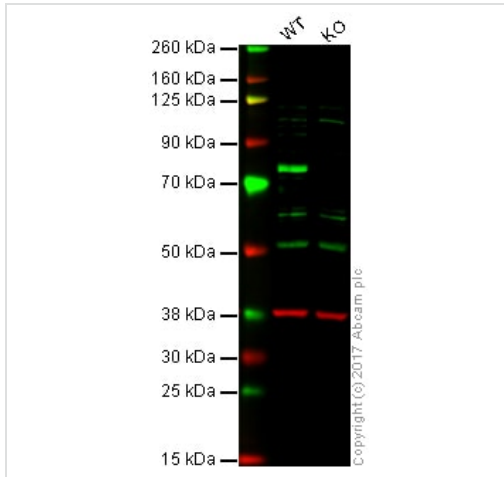
“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 80, 70 kDa (predicted molecular weight: 69 kDa).
ChIP		Use 2 µg for 25 µg of chromatin.
IP		1/40.

靶标

功能	Participates in the apoptotic response to DNA damage. Isoforms containing the transactivation domain are pro-apoptotic, isoforms lacking the domain are anti-apoptotic and block the function of p53 and transactivating p73 isoforms. May be a tumor suppressor protein.
组织特异性	Expressed in striatal neurons of patients with Huntington disease (at protein level). Brain, kidney, placenta, colon, heart, liver, spleen, skeletal muscle, prostate, thymus and pancreas. Highly expressed in fetal tissue.
序列相似性	Belongs to the p53 family. Contains 1 SAM (sterile alpha motif) domain.
结构域	Possesses an acidic transactivation domain, a central DNA binding domain and a C-terminal oligomerization domain that binds to the ABL tyrosine kinase SH3 domain. The WW-binding motif mediates interaction with WWOX.
翻译后修饰	Isoform alpha (but not isoform beta) is sumoylated on Lys-627, which potentiates proteasomal degradation but does not affect transcriptional activity. Higher levels of phosphorylation seen in the brain from patients with Huntington disease. Ubiquitinated; leading to its degradation by the proteasome.
细胞定位	Nucleus. Accumulates in the nucleus in response to DNA damage.

图片



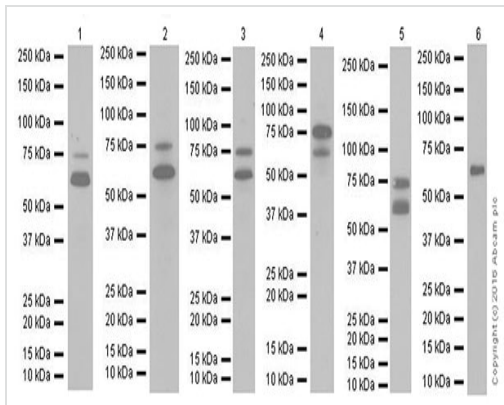
Western blot - Anti-p73 antibody [EPR19560] - ChIP Grade (ab202474)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: p73 knockout HAP1 whole cell lysate (20 µg)

Lanes 1 - 2: Merged signal (red and green). Green - ab202474 observed at 75 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab202474 was shown to recognize p73 in wild-type HAP1 cells as signal was lost at the expected MW in p73 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and p73 knockout samples were subjected to SDS-PAGE. Ab202474 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-p73 antibody [EPR19560] - ChIP Grade (ab202474)

All lanes : Anti-p73 antibody [EPR19560] - ChIP Grade (ab202474) at 1/1000 dilution

Lane 1 : MCF-7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : MDA-MB-231 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 3 : HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate

Lane 4 : HEK-293T (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 5 : HT-1376 (Human urinary bladder carcinoma cell line) whole cell lysate

Lane 6 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1-4 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Lanes 5-6 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

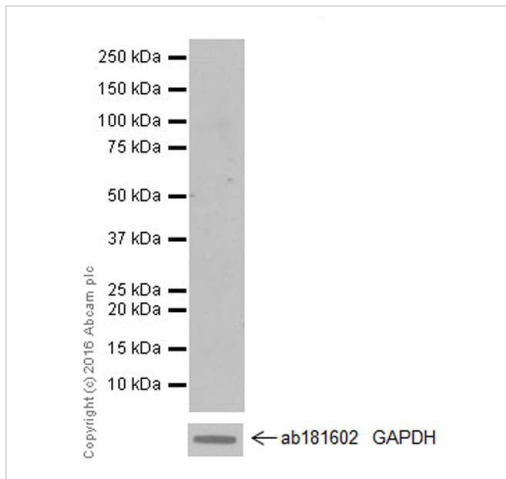
Predicted band size: 69 kDa

Observed band size: 70,80 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1/3/4/5: 1 minute; Lane 2/6: 3 minutes.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11101847).



Western blot - Anti-p73 antibody [EPR19560] - ChIP Grade (ab202474)

Anti-p73 antibody [EPR19560] - ChIP Grade ([ab202474](#)) at 1/1000 dilution + U937 (Human histiocytic lymphoma cell line) whole cell lysate at 10 μ g

Secondary

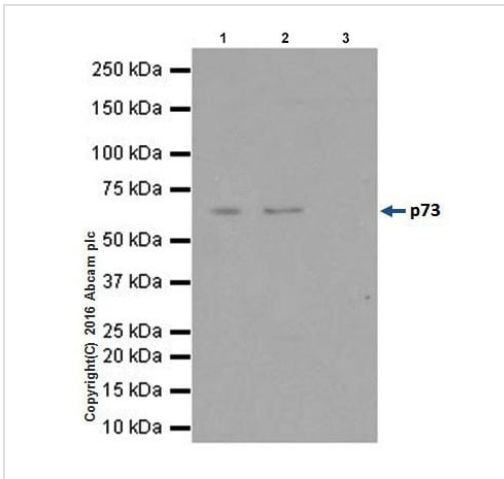
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 69 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Negative control: The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11101847).



Immunoprecipitation - Anti-p73 antibody [EPR19560]
- ChIP Grade (ab202474)

p73 was immunoprecipitated from 0.35mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with ab202474 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab202474 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

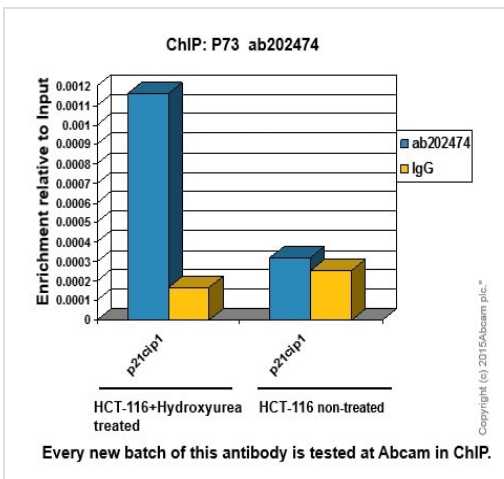
Lane 1: HepG2 whole cell lysate 10µg (Input).

Lane 2: ab202474 IP in HepG2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab202474 in HepG2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.



ChIP - Anti-p73 antibody [EPR19560] - ChIP Grade
(ab202474)

Chromatin was prepared from HCT 116 (Human colorectal carcinoma cell line) cells treated with 1mM Hydroxyurea for 16h and non-treated according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 25µg of chromatin, 2µg of ab202474 (blue), and 20µl of Anti rabbit IgG sepharose beads. 2µg of rabbit normal IgG was added to the beads control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Why choose a recombinant antibody?



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Success from the first experiment
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(ab202474)

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