abcam

Product datasheet

p53 Antibody Sampler Panel ab219089

7 Images

Overview

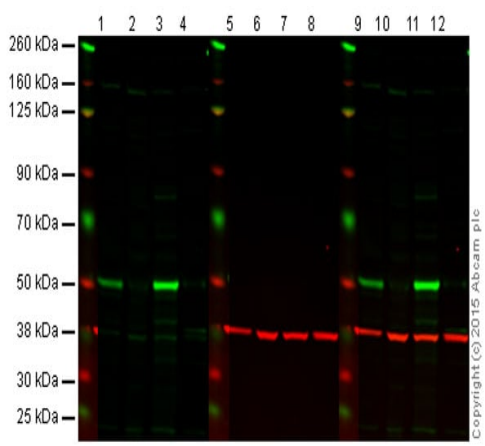
Product name	p53 Antibody Sampler Panel
Product overview	ab219089 is a sampler panel consisting of thoroughly-validated recombinant monoclonal antibodies against several variants of p53. This panel includes trial sizes of antibodies to unmodified p53, mutant p53, p53 (acetylated Lysine 382), p53 (phosphorylated Serine 20), p53 (phosphorylated Serine 392), p53 (phosphorylated Serine 46), and two anti-rabbit IgG (HRP) and anti-mouse IgG (HRP) antibodies.
Notes	**Explore our range of antibody sample panels** designed to provide you with a variety of trial-size antibodies in a convenient and cost-effective format. **Carrier-free formulations** of our recombinant antibodies are available and ready to use for multiplex analysis. Please refer to the 'Associated products' section below.

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

Components	1 packs
ab32049 - Anti-Mutant p53 antibody [Y5]	1 x 10µl
ab75754 - Anti-p53 (acetyl K382) antibody [EPR358(2)]	1 x 10µl
ab157454 - Anti-p53 (phospho S20) antibody [EPR2156(2)]	1 x 10µl
ab33889 - Anti-p53 (phospho S392) antibody [EP155Y]	1 x 10µl
ab76242 - Anti-p53 (phospho S46) antibody [EP42Y]	1 x 10µl
ab1101 - Anti-p53 antibody [DO-1]	1 x 10µg
ab205719 - Goat Anti-Mouse IgG H+L (HRP)	1 x 100µg
ab205718 - Goat Anti-Rabbit IgG H&L (HRP)	1 x 100µg

Images



Western blot - Anti-p53 antibody [DO-1] (

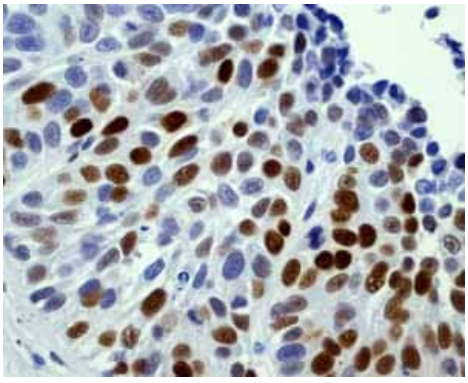
ab1101

)

Predicted band size : 43.6 kDa

Lanes 1, 5 and 9: Wild-type HAP1 cell lysate (20 µg)
Lanes 2, 6 and 10: p53 knockout HAP1 cell lysate (20 µg)
Lanes 3, 7 and 11: A431 cell lysate (20 µg)
Lanes 4, 8 and 12: Saos-2 cell lysate (20 µg)
Lanes 1, 2, 3 and 4: Green signal from target – **ab1101** observed at 53 kDa
Lanes 5, 6, 7 and 8: Red signal from loading control – **ab181602** observed at 37 kDa
Lanes 9, 10, 11 and 12: Merged (red and green) signal

Anti-p53 antibody [DO-1] (**ab1101**) was shown to specifically react with p53 when p53 knockout samples were used. Wild-type and p53 knockout samples were subjected to SDS-PAGE. **ab1101** and **ab181602** (loading control to GAPDH) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4ºC. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.

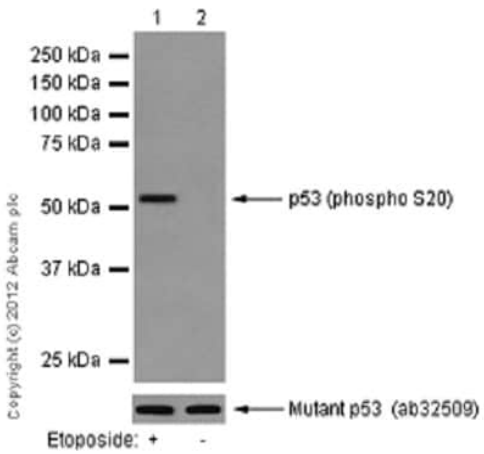


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mutant p53 [Y5] antibody (

ab32049

)

ab32049 showing positive staining in urinary bladder carcinoma tissue.



Western blot - Anti-p53 (phospho S20) antibody [EPR2156(2)] (

ab157454

)

All lanes : Anti-p53 (phospho S20) antibody [EPR2156(2)] (**ab157454**) at 1/1000 dilution

Lane 1 : T47D (human mammary gland ductal carcinoma) treated with Etoposide whole cell lysate
Lane 2 : Untreated T47D (human mammary gland ductal carcinoma) whole cell lysate

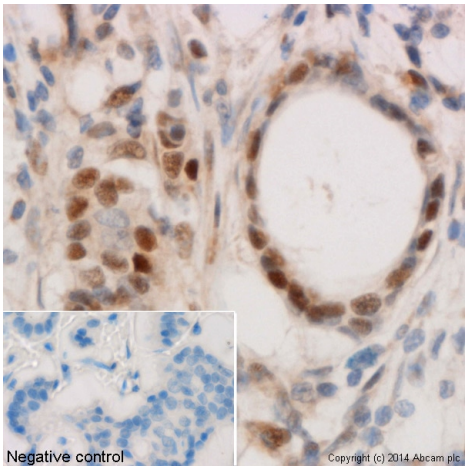
Lysates/proteins at 10 µg per lane.

Secondary
Goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Predicted band size : 44 kDa
Observed band size : 53 kDa (**why is the actual band size different from the predicted?**)

Exposure time : 1 minute

Blocking & dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p53 (acetyl K382) antibody [EPR358(2)] (

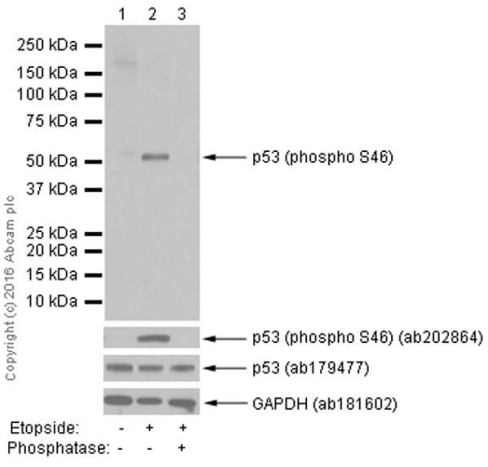
ab75754

)

IHC image of **ab75754** staining p53 (acetyl K382) in human breast adenocarcinoma formalin fixed paraffin embedded tissue sections*, performed on a Leica Bond. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with **ab75754**, 1µg/ml working concentration, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. No primary antibody was used in the secondary only control (shown on the inset).

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-p53 (phospho S46) antibody [EP42Y] (

ab76242

)

All lanes : Anti-p53 (phospho S46) antibody [EP42Y] (**ab76242**) at 1/5000 dilution

Lane 1 : Untreated HepG2 whole cell lysate
Lane 2 : HepG2 whole cell lysate, treated with etoposide
Lane 3 : HepG2 whole cell lysate, treated with etoposide, then the membrane was treated with alkaline phosphatase

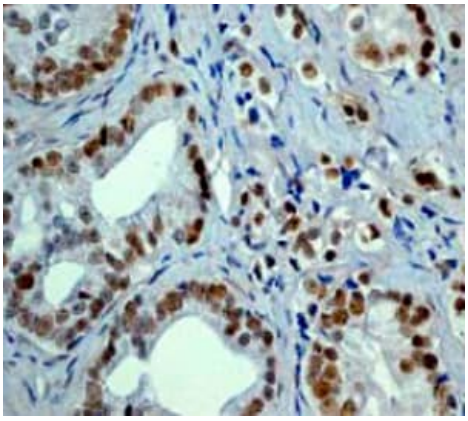
Lysates/proteins at 10 µg per lane.

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size : 53 kDa
Observed band size : 53 kDa

Exposure time : 1 minute

Blocking buffer: 2% BSA/TBST
Dilution buffer: 2% BSA/TBST

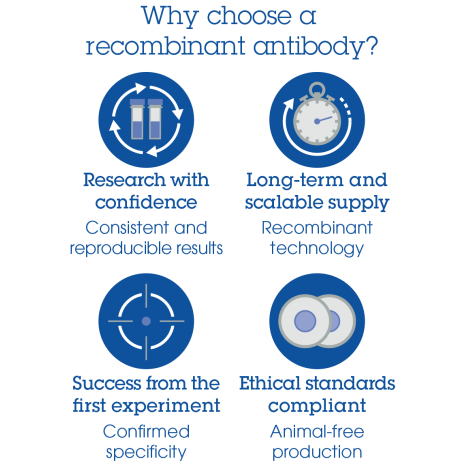


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p53 (phospho S392) antibody [EP155Y] (

ab33889

)

Ab33889, at a 1/100 dilution, staining p53 in paraffin embedded human prostate adenocarcinoma tissue by Immunohistochemistry.



p53 Antibody Sampler Panel (ab219089)

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.com/abpromise** or contact our technical team.

Terms and conditions

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