

Datasheet: AHP2668

Description:	RABBIT ANTI p53 (pThr18)
Specificity:	p53 (pThr18)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Purified IgG - liquid

Antiserum Preparation Antiserum to p53 (pThr18) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative 0.02% Sodium Azide
Stabilisers 50% Glycerol

Immunogen Phospho specific-peptide corresponding to residues surrounding threonine 18 of human p53

External Database Links

UniProt:
[P04637](https://www.uniprot.org/entry/P04637) [Related reagents](#)

Entrez Gene:

Synonyms	P53
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Specificity	<p>Rabbit anti p53 (pThr18) antibody recognizes the p53 tumor suppressor protein, also known as cellular tumor antigen p53 or NY-CO-13, when phosphorylated at threonine 18. The p53 protein is important in multicellular organisms, where it regulates cell cycle progression to allow DNA repair or apoptosis in the case of irreparably damaged cells and thus functions as a tumor suppressor, involved in preventing cancer (Haupt et al. 2003). Mutations in the p53 gene are found in approximately half the cases of human cancer (Joerger and Fersht 2007).</p> <p>Phosphorylation of threonine 18 interferes with the binding of p53 to the E3 ubiquitin protein ligase MDM2 (Blanco et al. 2006) promoting the apoptotic effects of p53.</p>
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Further Reading	<ol style="list-style-type: none">1. Haupt, S. <i>et al.</i> (2003) Apoptosis - the p53 network. J Cell Sci. 116 (Pt 20): 4077-85.2. Joerger, A.C. & Fersht, A.R. (2007) Structure-function-rescue: the diverse nature of common p53 cancer mutants. Oncogene. 26 (15): 2226-42.3. Blanco, S. <i>et al.</i> (2006) The subcellular localization of vaccinia-related kinase-2 (VRK2) isoforms determines their different effect on p53 stability in tumour cell lines. FEBS J. 273 (11): 2487-504.
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Storage	<p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

To

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M376957:210212'

Printed on 21 Mar 2022

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