

Datasheet: AHP2665

Description:	RABBIT ANTI p53 (pSer46)
Specificity:	p53 (pSer46)
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 - 1/1000

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 (pSer46) 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 serine 46 of human p53

External Database Links

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

Entrez Gene:
[7157](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=7157) TP53 [Related reagents](#)

Synonyms P53

Specificity **Rabbit anti p53 (pSer46) antibody** recognizes the p53 tumor suppressor protein, also known as cellular tumor antigen p53 or NY-CO-13, when phosphorylated at serine 46. 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](#)).

p53 is phosphorylated at serine 46 in response to DNA damage. Phosphorylation of p53 at serine 46 is important for the regulation of p53 mediated apoptosis ([Taira et al. 2007](#)).

Further Reading

1. Haupt, S. *et al.* (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. Taira, N. *et al.* (2007) DYRK2 is targeted to the nucleus and controls p53 via Ser46 phosphorylation in the apoptotic response to DNA damage. [Mol Cell. 25 \(5\): 725-38.](#)

Storage

Store at -20°C
Storage in frost-free freezers is not recommended.
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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

Regulatory

For research purposes only

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 \(STAR209P\)](#)

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