

Datasheet: AHP2663

Description:	RABBIT ANTI p53 (pSer15)
Specificity:	p53 (pSer15)
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 (pSer15) 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 Stabilisers	0.02% Sodium Azide 50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 15 of human p53
External Database Links	UniProt: P04637 Related reagents Entrez Gene: 7157 TP53 Related reagents

Synonyms	P53
Specificity	<p>Rabbit anti p53 (pSer15) antibody recognizes the p53 tumor suppressor protein, also known as cellular tumor antigen p53 or NY-CO-13, when phosphorylated at serine 15. 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>p53 is phosphorylated at serine 15 in response to DNA damage. The kinases ATM, ATR, and DNA-PK are all able to phosphorylate p53 on serine 15, which impairs its capacity to bind to the E3 ubiquitin protein ligase MDM2.</p>
Further Reading	<p>1. Haupt, S. et al. (2003) Apoptosis - the p53 network. J Cell Sci. 116 (Pt 20): 4077-85.</p> <p>2. Joerger, A.C. & Fersht, A.R. (2007) Structure-function-rescue: the diverse nature of common p53 cancer mutants. Oncogene. 26 (15): 2226-42.</p>
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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10049 available at:</p> <p>10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</p>
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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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