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

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). 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.
Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
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.
Storage	Store at -20ºC 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.
Shelf Life	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
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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