

## Datasheet: AHP2339

<b>Description:</b>	RABBIT ANTI p53 (pSer15)
<b>Specificity:</b>	p53 (pSer15)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

### 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			20 ug/ml
Immunoprecipitation	▪			5 - 10 ug/ml
Western Blotting	▪			0.5 - 4.0 ug/ml

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

#### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

30% Glycerol  
0.5% Bovine Serum Albumin  
0.01% Thiomersal

#### Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

<b>Immunogen</b>	Synthetic phospho-peptide surrounding amino acid Ser15 of human p53
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04637</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7157</a>    TP53    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	P53
<b>Specificity</b>	<p><b>Rabbit anti p53 (pSer15) antibody</b> recognizes cellular tumor antigen p53, also known as antigen NY-CO-13, phosphoprotein p53 and tumor suppressor p53, when phosphorylated at serine 15.</p> <p>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 (Haupt <i>et al.</i> 2003) and thus functions as a tumor suppressor, involved in preventing cancer. Mutations in the p53 gene are found in about half the cases of human cancer (Joerger and Fersht 2007).</p> <p>Rabbit anti p53 (pSer15) antibody binds to p53 phosphorylated on 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>
<b>Western Blotting</b>	Rabbit anti p53 (pSer15) antibody recognizes a band of approximately 53 kDa in lysate from HeLa cells treated with UV
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Madan, E. <i>et al.</i> (2012) p53 Ser15 phosphorylation disrupts the p53-RPA70 complex and induces RPA70-mediated DNA repair in hypoxia. <a href="#">Biochem J. 443 (3): 811-20.</a></li> <li>Wang, B. <i>et al.</i> (2013) p53 Ser15 phosphorylation and histone modifications contribute to IR-induced miR-34a transcription in mammary epithelial cells. <a href="#">Cell Cycle. 12 (13): 2073-83.</a></li> <li>Yang, T. <i>et al.</i> (2019) Phosphorylation of p53 Serine 15 Is a Predictor of Survival for Patients with Hepatocellular Carcinoma. <a href="#">Can J Gastroenterol Hepatol. 2019: 9015453.</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10096 available at: 10096: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10096.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10096.pdf</a>
<b>Regulatory</b>	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 (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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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://bio-rad-antibodies.com/datasheets)

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