

## Datasheet: AHP2582

<b>Description:</b>	RABBIT ANTI C-MYC (pSer373)
<b>Specificity:</b>	C-MYC (pSer373)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
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**Antiserum Preparation** Antiserum to c-Myc (pSer373) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative</b>	0.02% Sodium Azide
<b>Stabilisers</b>	50% Glycerol

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding serine 373 of human c-Myc
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### External Database Links

#### UniProt:

[P01106](http://www.uniprot.org/entry/P01106)

[Related reagents](#)

#### Entrez Gene:

<b>Synonyms</b>	BHLHE39
<b>Specificity</b>	<p><b>Rabbit anti c-Myc (pSer373) antibody</b> recognizes proto-oncogene c-Myc, also known as Class E basic helix-loop-helix protein 39, transcription factor p64 and avian myelocytomatosis viral oncogene homolog, when phosphorylated at serine 373. c-Myc is a transcription factor and a member of the Myc family of basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factors. c-Myc is involved in regulation of the cell cycle, cell differentiation and apoptosis.</p> <p>Dimerization of c-Myc with bHLH-Zip protein Max is necessary for transcriptional activity (<a href="#">Nilsson and Cleveland 2003</a>). c-Myc is phosphorylated at serine 373 by PAK2, this inhibits the ability of c-Myc to dimerize with Max, negatively regulating the activity of c-Myc (<a href="#">Huang <i>et al.</i> 2004</a>). PKC-zeta is also reported to phosphorylate c-Myc at serine 373 (<a href="#">Kim <i>et al.</i> 2013</a>).</p>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Nilsson, J.A. &amp; Cleveland, J.L. (2003) Myc pathways provoking cell suicide and cancer. <a href="#">Oncogene 22 (56): 9007-21.</a></li> <li>2. Huang, Z. <i>et al.</i> (2004) Negative control of the Myc protein by the stress-responsive kinase Pak2. <a href="#">Mol Cell Biol. 24 (4): 1582-94.</a></li> <li>3. Kim, J.Y. <i>et al.</i> (2013) c-Myc phosphorylation by PKC<math>\zeta</math> represses prostate tumorigenesis. <a href="#">Proc Natl Acad Sci U S A. 110 (16): 6418-23.</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>	<p>Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2582">https://www.bio-rad-antibodies.com/SDS/AHP2582</a></p> <p>10049</p>
<b>Regulatory</b>	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)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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