

## Datasheet: AHP2573

<b>Description:</b>	RABBIT ANTI Chk1 (pSer280)
<b>Specificity:</b>	Chk1 (pSer280)
<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 - 1/2000

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 Chk1 (pSer280) 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 280 of human Chk1

### External Database Links

**UniProt:**  
[O14757](#)    [Related reagents](#)

**Entrez Gene:**  
[1111](#) CHEK1    [Related reagents](#)

**Synonyms** CHK1

**Specificity** **Rabbit anti Chk1 (pSer280) antibody** recognizes Chk1 also known as checkpoint kinase-1, CHK1 checkpoint homolog or cell cycle checkpoint kinase, when phosphorylated at serine 280.

Chk1 is a serine/threonine protein kinase that plays a crucial role in cell cycle control. Chk1 is involved in triggering cell cycle arrest, DNA repair and apoptosis ([Bartek and Lukas 2003](#)).

Chk1 plays a critical role in preventing aberrant cells from progressing through the cell cycle ([Thompson and Eastman 2013](#)). Chk1 is phosphorylated at serine 280 by p90 RSK ([Li et al. 2012](#)) resulting in nuclear accumulation of Chk1.

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<b>Western Blotting</b>	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.
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Bartek, J. &amp; Lukas, J. (2003) Chk1 and Chk2 kinases in checkpoint control and cancer. <a href="#">Cancer Cell. 3 (5): 421-9.</a></li><li>2. Thompson, R. &amp; Eastman, A. (2013) The cancer therapeutic potential of Chk1 inhibitors: how mechanistic studies impact on clinical trial design. <a href="#">Br J Clin Pharmacol. 76 (3): 358-69.</a></li><li>3. Li, P. et al. (2012) P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation. <a href="#">Mol Biol Cell. 23 (8): 1582-92.</a></li></ol>
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<b>Storage</b>	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.
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<b>Shelf Life</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: 10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## 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 \(STAR209P\)](#)

<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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