

Datasheet: AHP2573

Description:	RABBIT ANTI Chk1 (pSer280)
Specificity:	Chk1 (pSer280)
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
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Product Form	Purified IgG - liquid
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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
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Preservative	0.02% Sodium Azide
Stabilisers	50% Glycerol

Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 280 of human Chk1
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External Database Links

UniProt:

[O14757](https://www.uniprot.org/entry/O14757)

[Related reagents](#)

Entrez Gene:

Synonyms	CHK1
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Specificity	<p>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.</p> <p>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).</p> <p>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.</p>
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Further Reading	<ol style="list-style-type: none">1. Bartek, J. & Lukas, J. (2003) Chk1 and Chk2 kinases in checkpoint control and cancer. Cancer Cell. 3 (5): 421-9.2. Thompson, R. & Eastman, A. (2013) The cancer therapeutic potential of Chk1 inhibitors: how mechanistic studies impact on clinical trial design. Br J Clin Pharmacol. 76 (3): 358-69.3. Li, P. <i>et al.</i> (2012) P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation. Mol Biol Cell. 23 (8): 1582-92.
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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>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
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Regulatory	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](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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