

## Datasheet: AHP2574

<b>Description:</b>	RABBIT ANTI Chk2 (pSer516)
<b>Specificity:</b>	Chk2 (pSer516)
<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 Chk2 (pSer516) 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 516 of human Chk2

### External Database Links

**UniProt:**

[O96017](#)

[Related reagents](#)

**Entrez Gene:**

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<b>Synonyms</b>	CHK2, RAD53
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<b>Specificity</b>	<p><b>Rabbit anti Chk2 (pSer516) antibody</b> recognizes Chk2, also known as serine/threonine-protein kinase Chk2, CHK2 checkpoint homolog, Cds1 homolog (hCds1) and checkpoint kinase 2, when phosphorylated at serine 516. Chk2 is a serine/threonine-protein kinase involved in cell cycle arrest, activation of DNA repair and apoptosis.</p> <p>Activated Chk2 phosphorylates and inhibits Cdc25C phosphatase, stabilizes the tumor suppressor protein p53 leading to cell cycle arrest in G1. In addition, Chk2 can phosphorylate BRCA1, activating cell survival pathways.</p> <p>Chk2 is a putative tumor suppressor protein, with mutations of the Chk2 gene linked to the familial cancer Li-Fraumeni syndrome. Autophosphorylation of Chk2 at serine 516 is important for full activation of Chk2 (<a href="#">Wu and Chen 2003</a>).</p>
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<b>Further Reading</b>	1. Wu, X. & Chen, J. (2003) Autophosphorylation of checkpoint kinase 2 at serine 516 is required for radiation-induced apoptosis. <a href="#">J Biol Chem. 278 (38): 36163-8.</a>
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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>Guarantee</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](#)

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 \(STAR209P\)](#)

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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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