

Datasheet: AHP2574

Description:	RABBIT ANTI Chk2 (pSer516)
Specificity:	Chk2 (pSer516)
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

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:
[11200](#) CHEK2 [Related reagents](#)

Synonyms CHK2, RAD53

Specificity **Rabbit anti Chk2 (pSer516) antibody** 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.

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.

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 ([Wu and Chen 2003](#)).

Western Blotting	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.
Further Reading	1. Wu, X. & Chen, J. (2003) Autophosphorylation of checkpoint kinase 2 at serine 516 is required for radiation-induced apoptosis. J Biol Chem. 278 (38): 36163-8.
Storage	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.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	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 (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 \(STAR209P\)](#)

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