

Datasheet: MCA6041

Description:	MOUSE ANTI Chk1
Specificity:	Chk1
Other names:	CHECKPOINT KINASE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2G1D5
Isotype:	IgG1
Quantity:	50 µg

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 µg/ml

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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
50% Glycerol

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human Chk1
External Database Links	<p>UniProt: O14757 Related reagents</p> <p>Entrez Gene: 1111 CHEK1 Related reagents</p>
Synonyms	CHK1
Specificity	<p>Mouse anti Chk1 antibody, clone 2G1D5 recognizes Chk1 also known as cell cycle checkpoint kinase homologue 1, CHK1 or checkpoint kinase-1.</p> <p>Chk1, like the other checkpoint kinase Chk2, is a serine/threonine protein kinase that plays a crucial role in cell cycle control. Chk1 becomes phosphorylated and consequently activated in response to DNA damage by the ATR kinase. Upon this activation Chk1 phosphorylates a variety of proteins including p53 and Cdc25, which triggers 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. Based on this, it is not surprising that Chk1 is of interest in the field of cancer research and as a therapeutic target (Thompson and Eastman, 2013).</p>
Western Blotting	Mouse ant Chk1 recognizes a band of ~55 kDa by western blot
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up tp 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	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

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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
'M380443:210512'

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