

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 ug/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.
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 (NaN ₃) 50% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human Chk1
External Database Links	UniProt: O14757 Related reagents

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

Synonyms	CHK1
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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>
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Western Blotting	Mouse ant Chk1 recognizes a band of ~55 kDa by western blot
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Storage	<p>Store at +4°C or at -20°C if preferred.</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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Shelf Life	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

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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