Datasheet: MCA1993

Description:	MOUSE ANTI HUMAN Cdk7
Specificity:	Cdk7
Other names:	CYCLIN-DEPENDENT KINASE 7
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MO-1.1
Isotype:	IgG2b
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1ug/ml - 10ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A/G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.08% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	221 amino acid recombinant fragment of Cdk7 C terminus
External Database Links	**UniProt:**

P50613 Related reagents

Entrez Gene:

1022 CDK7 Related reagents

Synonyms	MO15
Fusion Partners	Spleen cells derived from immunized Balb/c mice were fused with cells from the NS-2 mouse myeloma.
Specificity	**Mouse anti Human Cdk7 antibody, clone MO-1.1** recognizes human Cyclin-dependent kinase 7, also known as 39 kDa protein kinase, Cell division protein kinase 7, Serine/threonine-protein kinase 1 and TFIIH basal transcription factor complex kinase subunit. Cdk7 is a 346 amino acid member of the CDC2/CDKX subfamily of serine/threonine family of protein kinases. Cdk7, as part of the CAK complex is involved with the transcription factor TFIIH and is thought to be involved in the control of cell cycle progression, DNA repair and RNA polymerase II (pol II) transcription. Cdk7 demonstrates ubiquitous muclear expression in normal tissues and is expressed in cancer tissues (Bartkova *et al.* 1996).
Histology Positive Control Tissue	HeLa cells fixed with acetone/methanol
References	1. Tassan, J.P. *et al.* (1994) Cell cycle analysis of the activity, subcellular localization, and subunit composition of human CAK (CDK-activating kinase). J Cell Biol. 127 (2): 467-78. 2. Syljuåsen, R.G. *et al.* (2006) Adaptation to the ionizing radiation-induced G2 checkpoint occurs in human cells and depends on checkpoint kinase 1 and Polo-like kinase 1 kinases. Cancer Res. 66: 10253-7. 3. Aagaard, L. *et al.* (1995) Aberrations of p16Ink4 and retinoblastoma tumour-suppressor genes occur in distinct sub-sets of human cancer cell lines. Int J Cancer. 61 (1): 115-20. 4. Falck, J. *et al.* (2001) Functional impact of concomitant versus alternative defects in the Chk2-p53 tumour suppressor pathway. Oncogene. 20: 5503-10.
Further Reading	1. Lukás, J. *et al.* (1992) Distinct forms of human CDC2 identified by novel monoclonal antibodies. Eur J Biochem. 207 (1): 169-76.
Storage	Store at +4ºC or at -20ºC if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Human Anti Mouse IgG2b (HCA038...)	FITC, HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	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

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

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