

Datasheet: MCA1860

BATCH NUMBER 0113R

Description:	MOUSE ANTI HUMAN Mcm5
Specificity:	MCM5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CRCT5.1
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 (1)	▪			1/25 - 1/100
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Bacterially expressed human Mcm5.
External Database Links	<p>UniProt: P33992 Related reagents</p> <p>Entrez Gene: 4174 MCM5 Related reagents</p>
Synonyms	CDC46
RRID	AB_2235163
Fusion Partners	Spleen cells from immunised CBI/CFI mice were fused with cells of the mouse SP2 myeloma cell line.
Specificity	<p>Mouse anti Human Mcm5 antibody, clone CRCT5.1 recognizes human Mcm-5 (minichromosome maintenance protein 5), also known as DNA replication licensing factor MCM5 or P1-CDC46. Mcm5 is a nuclear protein of ~95kDa with an important role in the control of DNA replication (Snyder et al. 2005).</p> <p>Immunocytochemical assessment of Mcm5 expression may be of value in improving the accuracy of cervical smear testing for the detection of malignancy (Murphy et al. 2004).</p>
Histology Positive Control Tissue	Tonsil / Cervical Carcinoma
References	<ol style="list-style-type: none"> Dart, D.A. <i>et al.</i> (2004) Recruitment of the cell cycle checkpoint kinase ATR to chromatin during S-phase. J Biol Chem. 279: 16433-40. Adams, K.E. <i>et al.</i> (2006) Recruitment of ATR to sites of ionising radiation-induced DNA damage requires ATM and components of the MRN protein complex. Oncogene. 25: 3894-904. Gakiopoulou, H. <i>et al.</i> (2007) Minichromosome maintenance proteins 2 and 5 in non-benign epithelial ovarian tumours: relationship with cell cycle regulators and prognostic implications. British Journal of Cancer 97: 1124-34. Guida, T. <i>et al.</i> (2005) Mitogenic effects of the up-regulation of minichromosome maintenance proteins in anaplastic thyroid carcinoma. J Clin Endocrinol Metab. 90: 4703-9. Polo, S.E. <i>et al.</i> (2010) Clinical significance and prognostic value of chromatin assembly factor-1 overexpression in human solid tumours. Histopathology. 57: 716-24.

Further Reading 1. Williams, G.H. *et al.* (1998) Improved cervical smear assessment using antibodies against proteins that regulate DNA replication. [Proc Natl Acad Sci U S A. 95 \(25\): 14932-7.](#)

Storage Store at +4°C or at -20°C 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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1860>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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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
'M365832:200529'

Printed on 20 Oct 2023

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