

Datasheet: MCA1859

BATCH NUMBER 174890

Description:	MOUSE ANTI HUMAN MCM2
Specificity:	MCM2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CRCT2.1
Isotype:	IgG1
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)	▪			1/200
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

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.

(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 A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers	
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Bacterially expressed human Mcm2.
External Database Links	UniProt: P49736 Related reagents Entrez Gene: 4171 MCM2 Related reagents
Synonyms	BM28, CCNL1, CDCL1, KIAA0030
RRID	AB_322519
Fusion Partners	Spleen cells from immunised CBA/c F1 mice were fused with cells of the mouse SP-2/0 myeloma cell line.
Specificity	Mouse anti Human MCM2 antibody, clone CRCT2.1 recognizes human DNA replication licensing factor MCM2, also known as Mcm2, Nuclear protein BM28 or mini chromosome maintenance protein-2. Mcm-2 is a 904 amino acid ~125kDa nuclear protein involved in the control of DNA replication. Mouse anti Human MCM2 antibody, clone CRCT2.1 has been used successfully for the detection of human MCM2 in ovarian adenocarcinoma by immunohistochemistry on formalin fixed, paraffin embedded tissues (Gakiopoulou et al. 2007).
Histology Positive Control Tissue	Human tonsil, or other tissue with high proliferative index
References	1. Korkolopoulou, P. <i>et al.</i> (2005) Minichromosome maintenance proteins 2 and 5 expression in muscle-invasive urothelial cancer: a multivariate survival study including proliferation markers and cell cycle regulators. Hum Pathol. 36: 899-907. 2. 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. Br J Cancer. 97:1124-34. 3. Giaginis, C. <i>et al.</i> (2009) Clinical significance of MCM-2 and MCM-5 expression in colon cancer: association with clinicopathological parameters and tumor proliferative capacity. Dig Dis Sci. 54: 282-91. 4. 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. 5. FitzGerald, J. <i>et al.</i> (2014) A high through-put screen for small molecules modulating MCM2 phosphorylation identifies Ryuvidine as an inducer of the DNA damage response. PLoS One. 9: e98891.

6. Montes de Oca, R. *et al.* (2015) The histone chaperone HJURP is a new independent prognostic marker for luminal A breast carcinoma. [Mol Oncol. 9 \(3\): 657-74.](#)
7. Wu, K.Z. *et al.* (2016) DDK dependent regulation of TOP2A at centromeres revealed by a chemical genetics approach. [Nucleic Acids Res. 44 \(18\): 8786-8798.](#)

Storage	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 to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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/MCA1859
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M486112:260928'

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