

## Product datasheet

### Anti-MCM2 antibody [CRCT2.1 (D1.9H5)] ab6153

★★★★★ [7 Abreviews](#) [10 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-MCM2 antibody [CRCT2.1 (D1.9H5)]
<b>Description</b>	Mouse monoclonal [CRCT2.1 (D1.9H5)] to MCM2
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to MCM2. Bacterially expressed human Mcm2.
<b>Positive control</b>	Tonsil, any tissue with high proliferative index
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituent: PBS
<b>Purification notes</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	CRCT2.1 (D1.9H5)
<b>Myeloma</b>	Sp2
<b>Isotype</b>	IgG1

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab6153 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (4)	Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 100 kDa).

## Target

### Function

Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for the entry in S phase and for cell division.

### Sequence similarities

Belongs to the MCM family.

Contains 1 MCM domain.

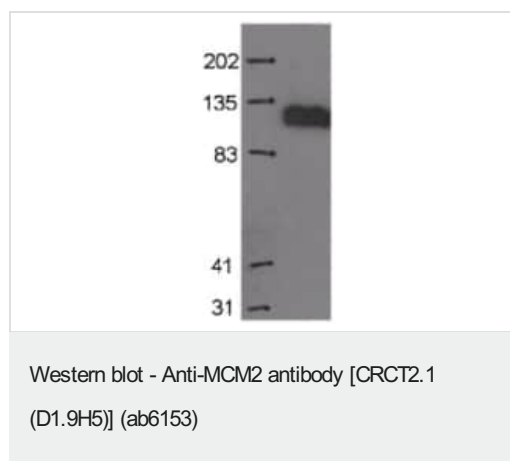
### Post-translational modifications

Phosphorylated on Ser-108 by ATR in proliferating cells. Ser-108 proliferation is increased by genotoxic agents. Ser-40 is mediated by the CDC7-DBF4 and CDC7-DBF4B complexes, while Ser-53 phosphorylation is only mediated by the CDC7-DBF4 complex. Phosphorylation by the CDC7-DBF4 complex during G1/S phase is required for the initiation of DNA replication.

### Cellular localization

Nucleus.

## Images



Western blot using HeLa OHIO extract. The antibody recognizes a doublet band and these migrate closely together. Review by Minna Makiniemi submitted 16 April 2004.

Western blot using HeLa OHIO extract. The antibody recognizes a doublet band and these migrate closely together. Review by Minna Makiniemi submitted 16 April 2004.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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