

Product datasheet

Anti-MCM2 antibody [SP85] ab95361

Recombinant RabMAb

[2 References](#) [12 Images](#)

Overview

Product name	Anti-MCM2 antibody [SP85]
Description	Rabbit monoclonal [SP85] to MCM2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, Flow Cyt (Intra), ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Cow, Dog 
Immunogen	Synthetic peptide within Human MCM2 aa 100-200. The exact sequence is proprietary. Database link: P49736
Positive control	WB: HeLa cell lysate. IHC-P: Human rectal carcinoma, human pancreas adenocarcinoma and human prostate tissue. ICC/IF: HeLa, NIH/3T3 and C6 cells. Flow Cyt (Intra): HeLa, NIH/3T3 and C6 cells.
General notes	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP85
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab95361 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		Use at an assay dependent concentration.
IHC-P		1/100. Antigen retrieval is recommended by the following method: boil tissue section in 1mM EDTA, pH 8.0 for 10 min followed by cooling at RT for 20 min.
Flow Cyt (Intra)		1/200. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50.

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.

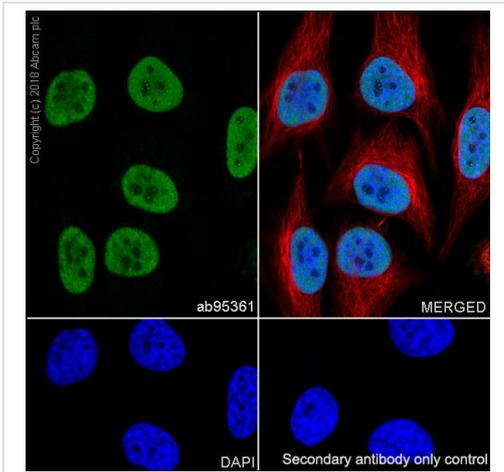
Post-translational modifications

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

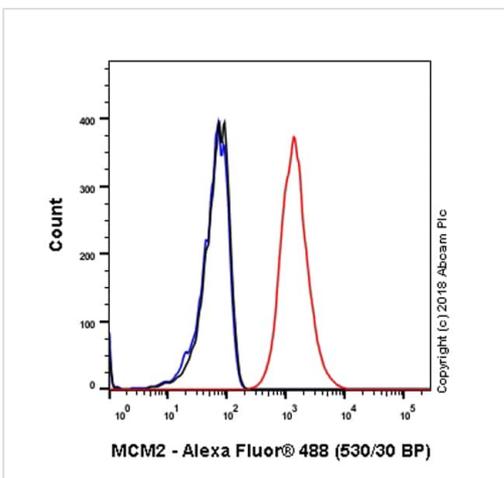
Nucleus.

Images



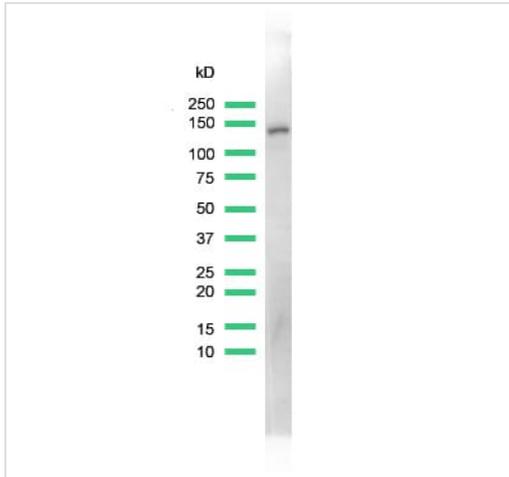
Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [SP85] (ab95361)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling MCM2 with purified ab95361 at 1/50 (2.5 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-MCM2 antibody [SP85] (ab95361)

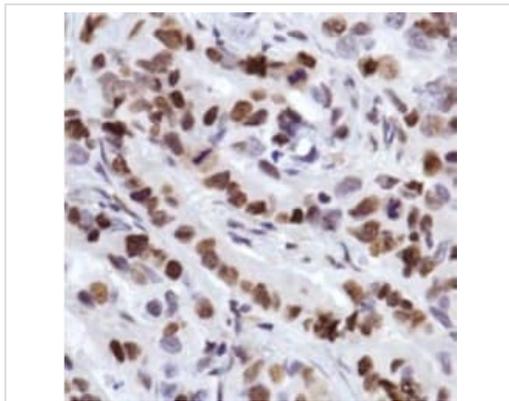
Flow cytometry analysis of HeLa (human cervix adenocarcinoma epithelial cell) labeling MCM2 with purified ab95361 at 1/200 dilution (0.615 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG (**ab172730**) (black). Unlabeled control - Unlabelled cells (blue).



Western blot - Anti-MCM2 antibody [SP85]
(ab95361)

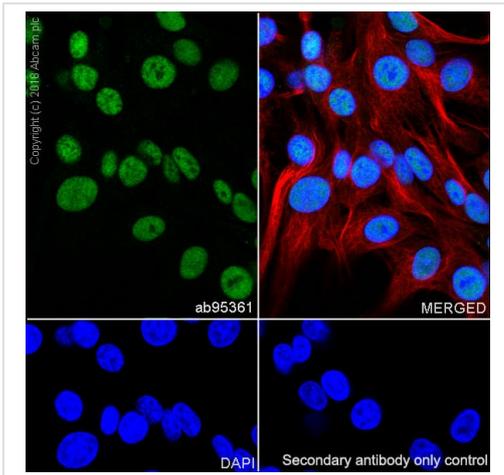
Anti-MCM2 antibody [SP85] (ab95361) at 1/100 dilution + lysate prepared from HeLa cells

Observed band size: 130 kDa



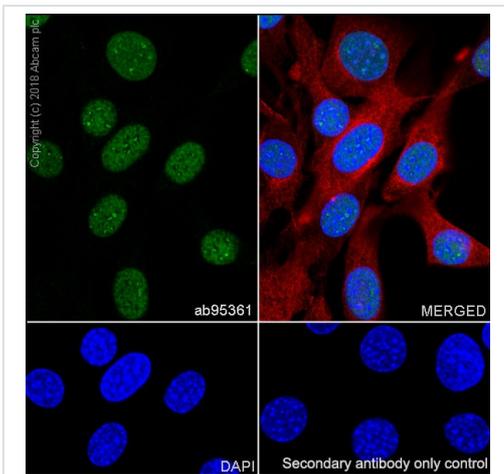
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [SP85]
(ab95361)

ab95361, at 1/100 dilution, staining MCM2 in formalin-fixed, paraffin-embedded Human rectal carcinoma tissue by Immunohistochemistry.



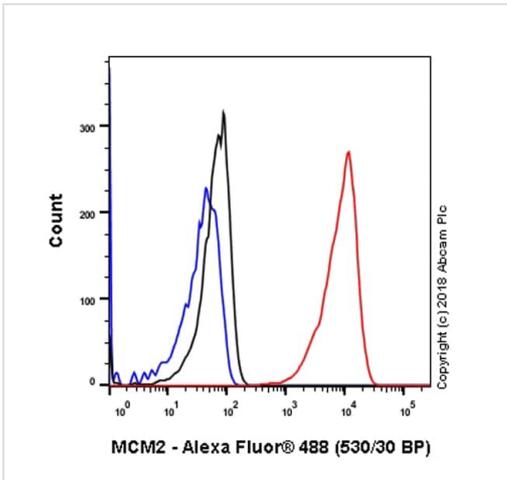
Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [SP85] (ab95361)

Immunocytochemistry/ Immunofluorescence analysis of C6 (rat glial tumor glial cell) cells labeling MCM2 with purified ab95361 at 1/50 (2.5 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor[®] 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



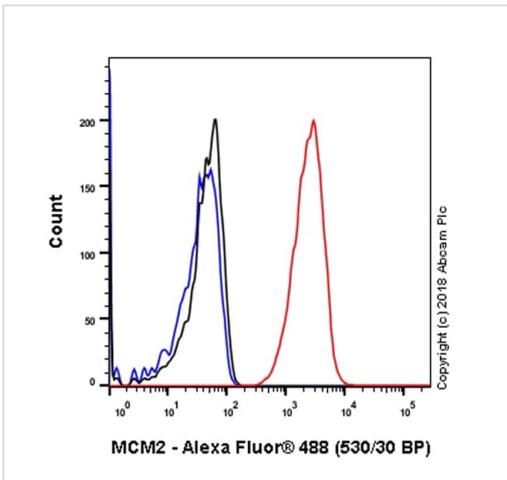
Immunocytochemistry/ Immunofluorescence - Anti-MCM2 antibody [SP85] (ab95361)

Immunocytochemistry/ Immunofluorescence analysis of NIH/3T3 (mouse embryonic fibroblast) cells labeling MCM2 with purified ab95361 at 1/50 (2.5 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor[®] 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



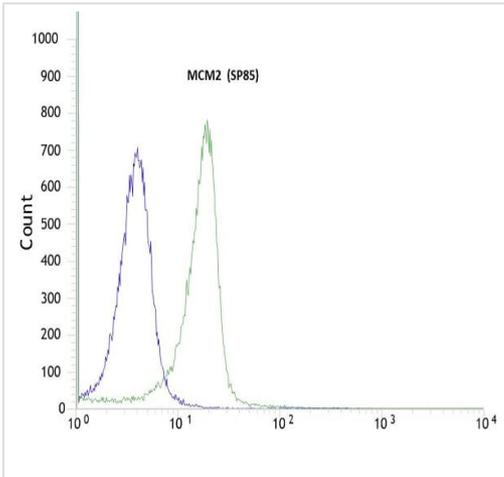
Flow cytometry analysis of C6 (rat glial tumor glial cell) labeling MCM2 with purified ab95361 at 1/200 dilution (0.615 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled control - Unlabelled cells (blue).

Flow Cytometry (Intracellular) - Anti-MCM2 antibody [SP85] (ab95361)



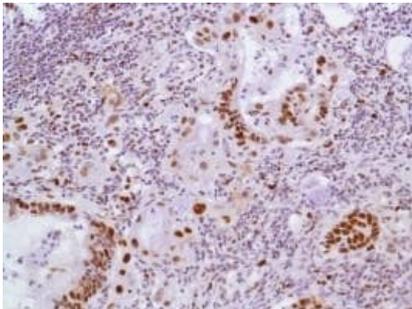
Flow cytometry analysis of NIH/3T3 (mouse embryonic fibroblast) labeling MCM2 with purified ab95361 at 1/200 dilution (0.615 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled control - Unlabelled cells (blue).

Flow Cytometry (Intracellular) - Anti-MCM2 antibody [SP85] (ab95361)



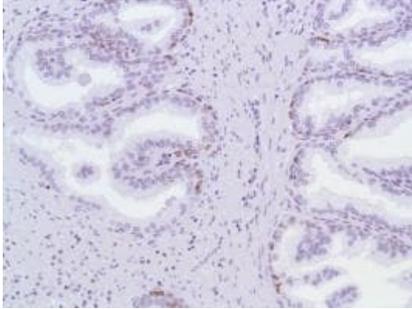
Flow cytometric analysis using rabbit anti-MCM2 (SP85) antibody ab95361(1/100) in HeLa cells (green) compared to negative control of rabbit IgG (blue).

Flow Cytometry (Intracellular) - Anti-MCM2 antibody [SP85] (ab95361)



ab95361, at 1/100 dilution, staining MCM2 in formalin-fixed, paraffin-embedded Human pancreas adenocarcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [SP85] (ab95361)



ab95361, at 1/100 dilution, staining MCM2 in formalin-fixed, paraffin-embedded Human prostate tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM2 antibody [SP85] (ab95361)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-MCM2 antibody [SP85] (ab95361)

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

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