

Product Datasheet

MCM10 Antibody - BSA Free

NB100-253

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-253

MCM10 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

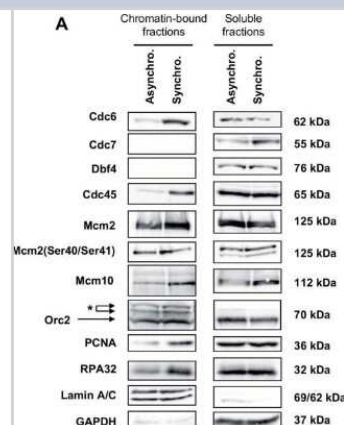
Product Description	
Host	Rabbit
Gene ID	55388
Gene Symbol	MCM10
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residues 600 and 650 of human Minichromosome Maintenance 10 using the numbering given in entry NP_060988.3 (GeneID 55388).

Product Application Details	
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:5000, Immunoprecipitation 1- 4 ug/mg of lysate
Application Notes	By Western blot, this antibody recognizes bands around 112 kDa representing MCM10.

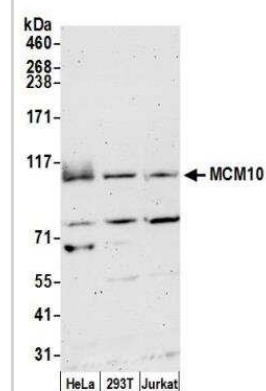


Images

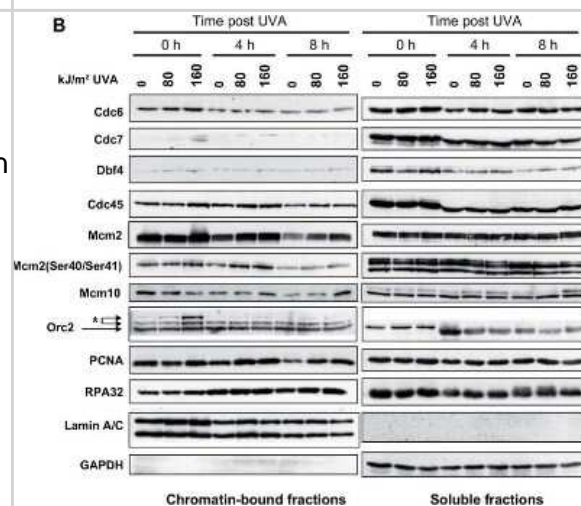
Western Blot: MCM10 Antibody [NB100-253] - No relocalization or post-translational modifications of some components of the replication machinery after UVA radiation. Asynchronous MRC5Vi cells or synchronized in early S-phase (condition S0R, see Material and Methods) are untreated or exposed to 80 and 160 kJ/m² of UVA radiation. Subcellular localization of Cdc6, Cdc7, Dbf4, Cdc45, Mcm2, Mcm10, Orc2, PCNA, RPA32 in asynchronous cells (Asyncro.) or cells synchronized in early S-phase (Synchro.). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0140645>), licensed under a CC-BY license.



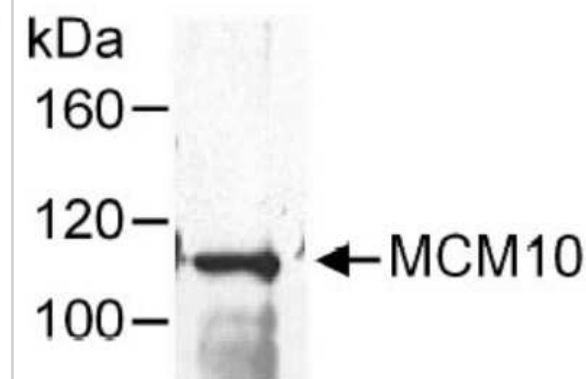
Western Blot: MCM10 Antibody [NB100-253] - Detection of human MCM10 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MCM10 antibody NB100-253 used for WB at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Western Blot: MCM10 Antibody [NB100-253] - Asynchronous MRC5Vi cells or synchronized in early S-phase (condition S0R, see Material and Methods) are untreated or exposed to 80 and 160 kJ/m² of UVA radiation. The fractions of chromatin-bound proteins and total soluble proteins were recovered at various time points post UVA. The expression levels of Cdc6, Cdc7, Dbf4, Cdc45, Mcm2, p-Mcm2(Ser40/41), Mcm10, Orc2, PCNA, and RPA32 were detected by Western blotting in denaturing and reducing conditions. Lamin A/C and GAPDH were used as loading control for the chromatin-bound and soluble fractions, respectively. The apparent molecular weight of each protein is indicated on the right side of each blot (panel 7A). The stars (*) indicate the position of the non specific bands detected by Orc2 antibody. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0140645>), licensed under a CC-BY license.



Immunoprecipitation: MCM10 Antibody [NB100-253] - HeLa cell lysate (1 mg for IP). Similar results were obtained with HCT116 cells (not shown). Antibody: Affinity purified rabbit anti- NB100-253 used at 1 ug/mg lysate for IP and 0.5 ug/ml for WB. Detection: Chemiluminescence.



Publications

Graindorge D, Martineau S, Machon C et al. Singlet Oxygen-Mediated Oxidation during UVA Radiation Alters the Dynamic of Genomic DNA Replication. PLoS One 2015-01-01 [PMID: 26485711] (WB)

Uno S, Masai H. Efficient expression and purification of human replication fork-stabilizing factor, Claspin, from mammalian cells: DNA-binding activity and novel protein interactions. Genes Cells 2011-08-01 [PMID: 21790909]

Chattopadhyay S, Bielinsky AK. Human Mcm10 regulates the catalytic subunit of DNA polymerase-alpha and prevents DNA damage during replication. Mol Biol Cell 2007-10-01 [PMID: 17699597]

Liu P, Barkley LR, Day T et al. The Chk1-mediated S-phase checkpoint targets initiation factor Cdc45 via a Cdc25A/Cdk2-independent mechanism. J Biol Chem 2006-10-01 [PMID: 16912045]





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Products Related to NB100-253

NBL1-12948	MCM10 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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