

# Product Datasheet

## MCM5 Antibody NB100-79778

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB100-79778**

## MCM5 Antibody

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)

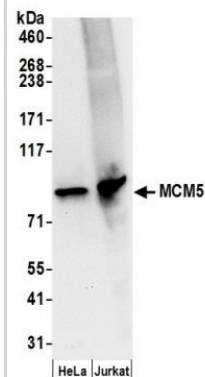
Product Description	
Host	Rabbit
Gene ID	4174
Gene Symbol	MCM5
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residues 1 and 50 of human Minichromosome Maintenance 5 using the numbering given in entry NP_006730.2 (GeneID 4174).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:20000, Immunohistochemistry 1:500-1:2000, Immunocytochemistry/Immunofluorescence, Immunoprecipitation 2-4 ug/mg lysate, Immunohistochemistry-Paraffin
Application Notes	This antibody is efficient at pulling down the MCM2-7 complex. Use in ICC/IF reported in scientific literature (PMID: 25071185). Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

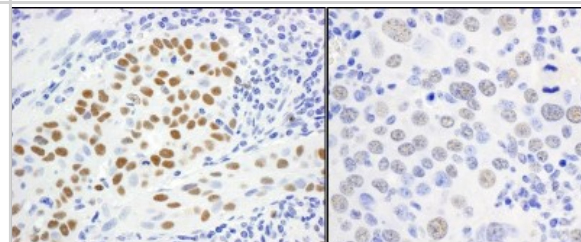


## Images

Western Blot: MCM5 Antibody [NB100-79778] - Detection of Human MCM5 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MCM5 antibody NB100-79778 used for WB at 0.05 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Immunohistochemistry-Paraffin: MCM5 Antibody [NB100-79778] - Human lung carcinoma (left) and mouse renal cell carcinoma (right). Antibody: Affinity purified rabbit anti- MCM5 used at a dilution of 1:1,000 (1 ug/ml). Detection: DAB



## Publications

Panneerselvam J, Pickering A, Han B et al. Basal level of FANCD2 monoubiquitination is required for the maintenance of a sufficient number of licensed-replication origins to fire at a normal rate. *Oncotarget* 2014 Jul 15 [PMID: 24658369] (WB, Human)

Details:

MCM5 antibody used for WB on several experiments involving CRL-1790 and HEK293T cells.

Hubbi ME, Gilkes DM, Hu H et al. Cyclin-dependent kinases regulate lysosomal degradation of hypoxia-inducible factor 1alpha to promote cell-cycle progression. *Proc Natl Acad Sci U S A.* 2014 Jul 28 [PMID: 25071185] (ICC/IF, Human)

Yan S, Michael WM. TopBP1 and DNA polymerase-alpha directly recruit the 9-1-1 complex to stalled DNA replication forks. *J Cell Biol* 2009 Mar [PMID: 19289795]

Yan S, Lindsay HD, Michael WM et al. Direct requirement for Xmus101 in ATR-mediated phosphorylation of Claspin bound Chk1 during checkpoint signaling. *J Cell Biol* 2006 Apr [PMID: 16618813]

Hubbi ME, Kshitiz, Gilkes D Met al. A nontranscriptional role for HIF-1alpha as a direct inhibitor of DNA replication. *Sci Signal* 2013 Feb 12 [PMID: 23405012]

Hubbi ME, Luo W, Baek JH et al. MCM proteins are negative regulators of hypoxia-inducible factor 1 *Mol Cell* 2011 Jun 10 [PMID: 21658608] (WB, Human)



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### **Products Related to NB100-79778**

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NBL1-12954	MCM5 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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