

Rabbit MCM3 Polyclonal Antibody | anti-MCM3 antibody

Phospho-MCM3 (Ser112) Antibody

CATALOG # AAA321346	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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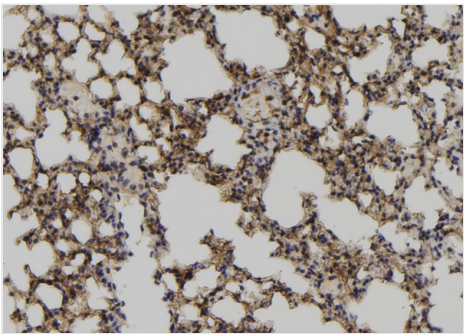
PRODUCT SYNONYMS

MCM3; Polyclonal Antibody; Phospho-MCM3 (Ser112) Antibody; Cervical cancer proto oncogene 5; DNA polymerase alpha holoenzyme associated P1; DNA polymerase alpha holoenzyme associated protein P1; DNA replication factor MCM3; DNA replication licensing factor mcm3; HCC 5; HCC5; hRlf beta subunit; Human cervical cancer proto oncogene 5; MCM 3; mcm3; MCM3 minichromosome maintenance deficient 3; MCM3_HUMAN; MGC1157; Minichromosome maintenance complex component 3; Minichromosome maintenance deficient 3; Minichromosome maintenance protein 3; P1 h; P1 MCM3; P1 Protein; P1-MCM3; P1.h; p102; P102 protein; Replication licensing factor beta subunit; RLF beta subunit; RLF subunit beta; RLFB; anti-MCM3 antibody

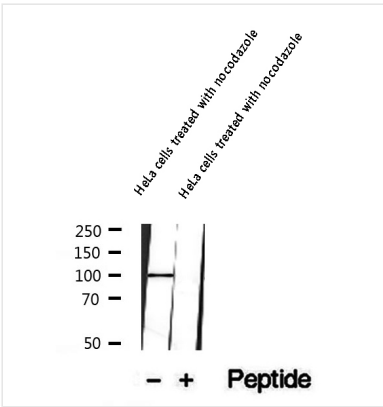
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-MCM3 (Ser112) antibody detects endogenous levels of MCM3.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	818
Applicable Applications for anti-MCM3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MCM3 around the phosphorylation site of Ser112.
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser112
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321346 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of HeLa cells treated with nocodazole, using Phospho-MCM3 (Ser112) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MCM3 antibody	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 DNA replication and cell proliferation. Subunit Structure: Component of the MCM2-7 complex. The complex forms a toroidal hexameric ring with the proposed subunit order MCM2-MCM6-MCM4-MCM7-MCM3-MCM5 (Probable). Associated with the replication-specific DNA polymerase alpha. Interacts with MCMBP. Interacts with ANKRD17. Post-translational Modifications: O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner. Similarity: Belongs to the MCM family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	394582099
NCBI GeneID	4172
NCBI Accession #	NP_001257401.1
NCBI GenBank Nucleotide #	NM_001270472.1
UniProt Accession #	P25205; Q92660; Q9BTR3; Q9NUE7; B4DWW4
Molecular Weight	Observed: 100 kDa Predicted: 91 kDa
NCBI Official Full Name	DNA replication licensing factor MCM3 isoform 2
NCBI Official Synonym Full Names	minichromosome maintenance complex component 3
NCBI Official Symbol	MCM3
NCBI Official Synonym Symbols	HCC5; P1.h; RLFB; P1-MCM3
NCBI Protein Information	DNA replication licensing factor MCM3
UniProt Protein Name	DNA replication licensing factor MCM3
UniProt Gene Name	MCM3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

