

Rabbit MCM3 Polyclonal Antibody | anti-MCM3 antibody

MCM3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA306715	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

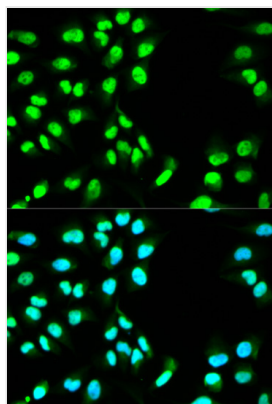
PRODUCT SYNONYMS

MCM3; Polyclonal Antibody; MCM3 Antibody; HCC5; MGC1157; P1-MCM3; P1.h; anti-MCM3 antibody

PRODUCT SPECIFICATIONS

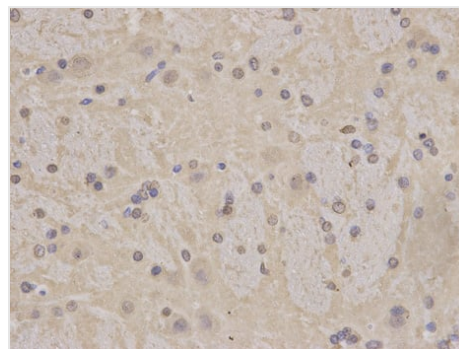
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total MCM3 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	818
Applicable Applications for anti-MCM3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human MCM3.
Target Name	MCM3
Preparation and Storage	Store at -20 degree C

IMAGES



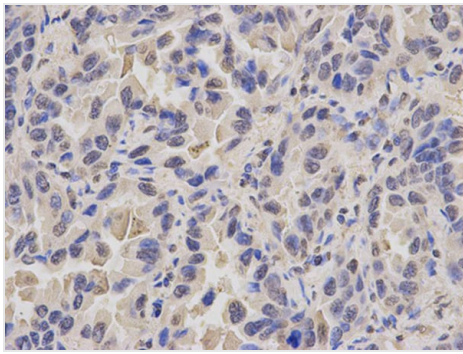
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using MCM3 antibody. Blue: DAPI for nuclear staining.



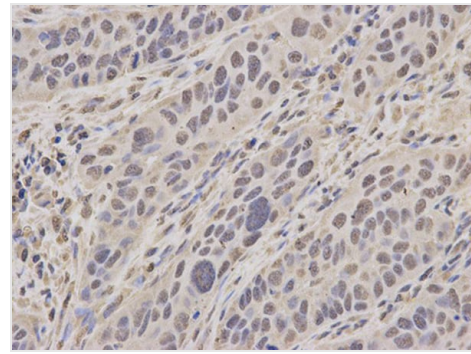
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat brain using MCM3 antibody at dilution of 1:200 (400x lens).



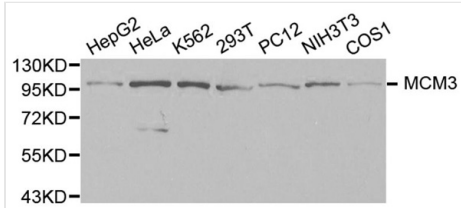
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human lung cancer using MCM3 antibody at dilution of 1:200 (400x lens).



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human esophageal cancer using MCM3 antibody at dilution of 1:200 (400x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using MCM3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MCM3 antibody

The minichromosome maintenance (MCM) 2-7 proteins are a family of six related proteins required for the initiation and elongation of DNA replication. MCM2-7 bind together to form the heterohexameric MCM complex that is thought to act as a replicative helicase at the DNA replication fork (1-5). This complex is also a key component of the pre-replication complex (pre-RC) (reviewed in 1). Cdc6 and CDT1 recruit the MCM complex to the origin recognition complex (ORC) during late mitosis/early G1 phase forming the pre-RC and licensing the DNA for replication (reviewed in 2). Phosphorylation of the MCM2, MCM3, MCM4, and MCM6 subunits appears to regulate MCM complex activity and the initiation of DNA synthesis (6-8). MCM proteins are removed during DNA replication, causing chromatin to become unlicensed through inhibition of pre-RC reformation. Licensing of the chromatin permits the DNA to replicate only once per cell cycle, thereby helping to ensure that genetic alterations and malignant cell growth do not occur (reviewed in 3). Studies have shown that the MCM complex is involved in checkpoint control by protecting the structure of the replication fork and assisting in restarting replication by recruiting checkpoint proteins after arrest (reviewed in 3,9).

Product Categories/Family for anti-MCM3 antibody

[Total protein Ab](#)

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	95,908 Da
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
UniProt Entry Name	MCM3_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/mcm3-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/306715>