

MCM7 Polyclonal Antibody | anti-MCM7 antibody

Anti-MCM7 Antibody

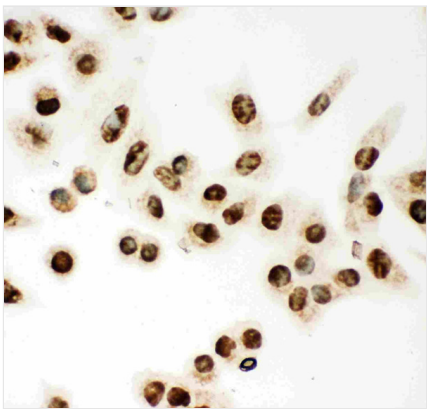
CATALOG # AAA11649	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry, Immunocytochemistry
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PRODUCT SYNONYMS

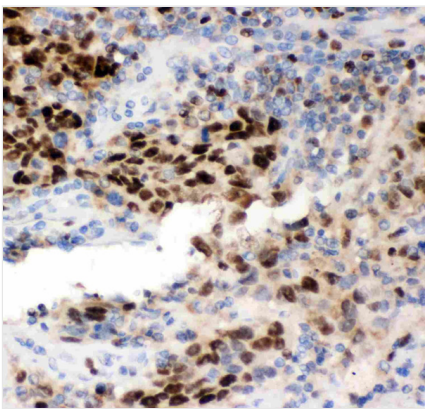
MCM7; Polyclonal Antibody; Anti-MCM7 Antibody; DNA replication licensing factor MCM7 ; CDABP0042; CDC 47; CDC47; CDC47 homolog; Cdc47; S. cerevisiae; homolog of; DNA replication licensing factor MCM7; Homolog of S. cerevisiae Cdc47; MCM 2; MCM 7; MCM2; formerly; Mcm7; MCM7 minichromosome maintenance deficient 7; MCM7_HUMAN; Minichromosome Maintenance 7; Minichromosome maintenance; Minichromosome maintenance complex component 7; Minichromosome maintenance deficient 7; Minichromosome maintenance protein 7; P1.1 MCM3; P1.1-MCM3; P1CDC47; P85MCM; PNAS 146; PNAS146; minichromosome maintenance complex component 7; anti-MCM7 antibody

PRODUCT SPECIFICATIONS

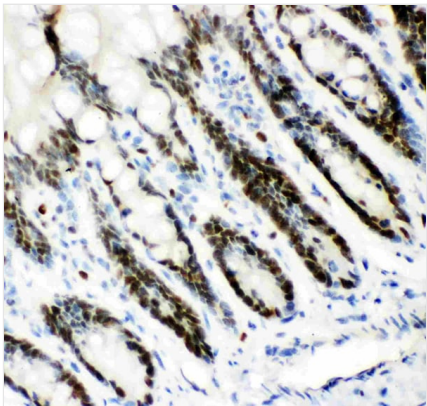
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	543
Applicable Applications for anti-MCM7 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml Immunocytochemistry Concentration: 0.5-1ug/ml
Immunogen	E Coli-derived human MCM7 recombinant protein (Position: D526-V719). Human MCM7 shares 94% amino acid (aa) sequence identity with mouse MCM7.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



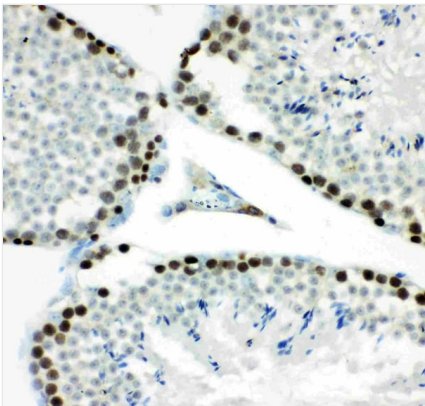
ICC (Immunocytochemistry)
Anti- MCM7 Picoband antibody, AAA11649, ICCIC: A549 Cell



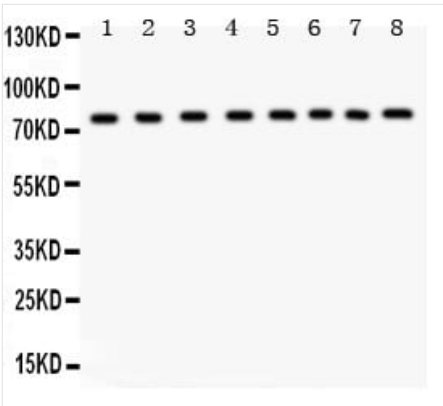
IHC (Immunohistochemistry)
Anti- MCM7 Picoband antibody, AAA11649, IHC(P)IHC(P): Human Lung Cancer Tissue



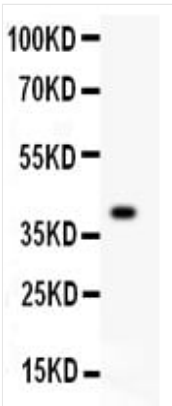
IHC (Immunohistochemistry)
Anti- MCM7 Picoband antibody, AAA11649, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti- MCM7 Picoband antibody, AAA11649, IHC(P)IHC(P): Mouse Testis Tissue



WB (Western Blot)
Anti- MCM7 Picoband antibody, AAA11649, Western blottingAll lanes: Anti MCM7 (AAA11649) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: NIH3T3 Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: JURKAT Whole Cell Lysate at 40ugLane 6: 22RV1 Whole Cell Lysate at 40ugLane 7: COLO320 Whole Cell Lysate at 40ugLane 8: PC-12 Whole Cell Lysate at 40ugPredicted bind size: 81KDObserved bind size: 81KD



WB (Western Blot)
Anti- MCM7 Picoband antibody, AAA11649, Western blottingAll lanes: Anti MCM7 (AAA11649) at 0.5ug/mlWB: Recombinant Human MCM7 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD

ADDITIONAL INFORMATION

Related Product Information for anti-MCM7 antibody	Description: Rabbit IgG polyclonal antibody for DNA replication licensing factor MCM7(MCM7) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. Background: MCM7(Minichromosome Maintenance, s. Cerevisiae, homolog of, 7), also called CDC47, FORMERLY, is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The MCM7 gene is mapped to 7q22.1. MCM7 plays a pivotal role in the G1/S phase transition, orchestrating the correct assembly of replication forks on chromosomal DNA and ensuring that all the genome is replicated once and not more than once at each cell cycle. The MCM7 gene contains 15 exons. The miRNAs MIR106B, MIR93, and MIR25 are clustered in a 5-prime to 3-prime orientation within intron 13. It has been found that MCM7 and the precursors of microRNAs (miRNAs) MIR106B, MIR93, and MIR25, all of which arise from intron 13 of the MCM7 gene, were overexpressed with almost perfect correlation in 5 of 10 human gastric tumors.
References	1. Groth, A., Corpet, A., Cook, A. J. L., Roche, D., Bartek, J., Lukas, J., Almouzni, G. Regulation of replication fork progression through histone supply and demand. Science 318: 1928-1931, 2007. 2. Nakatsuru, S., Sudo, K., Nakamura, Y. Isolation and mapping of a human gene (MCM2) encoding a product homologous to yeast proteins involved in DNA replication.Cytogenet. Cell Genet. 68: 226-230, 1995. 3. Petrocca, F., Visone, R., Onelli, M. R., Shah, M. H., Nicoloso, M. S., de Martino, I., Iliopoulos, D., Pilozzi, E., Liu, C.-G., Negrini, M., Cavazzini, L., Volinia, S., Alder, H., Ruco, L. P., Baldassarre, G., Croce, C. M., Vecchione, A. E2F1-regulated microRNAs impair TGF-beta-dependent cell-cycle arrest and apoptosis in gastric cancer. Cancer Cell 13: 272-286, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	518830597
NCBI GeneID	4176
NCBI Accession #	NP_001265524.1
NCBI GenBank Nucleotide #	NM_001278595.1
UniProt Accession #	P33993; Q15076; Q96D34; Q96GL1; A4D2A1; A4D2A2; E9PGN9
Molecular Weight	60,643 Da
NCBI Official Full Name	DNA replication licensing factor MCM7 isoform 2
NCBI Official Synonym Full Names	minichromosome maintenance complex component 7
NCBI Official Symbol	MCM7
NCBI Official Synonym Symbols	MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3
NCBI Protein Information	DNA replication licensing factor MCM7
UniProt Protein Name	DNA replication licensing factor MCM7
UniProt Gene Name	MCM7
UniProt Synonym Gene Names	CDC47; MCM2
UniProt Entry Name	MCM7_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.