

Product Datasheet

Recombinant MCM7 Antibody (orb639802)

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|-----------------------------|---|
| Catalog Number | orb639802 |
| Category | Antibodies |
| Description | <p>MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that is essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumor suppressor protein RB1/RB.</p> |
| Clonality | Recombinant |
| Species/Host | Mouse |
| Isotype | Mouse IgG1, kappa |
| Conjugation | Unconjugated |
| Reactivity | Human |
| Buffer/Preservatives | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide |
| Purification | Protein G affinity chromatography |
| Immunogen | A human partial protein corresponding to amino acids 195-319 was used as the immunogen for the recombinant MCM7 antibody. |
| UniProt ID | P33993 |
| Tested applications | IHC-P, WB |

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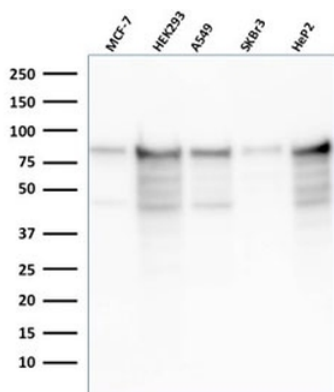
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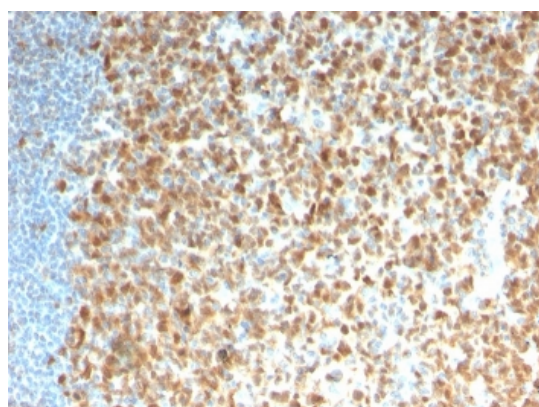
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|--------------------------|---|
| Dilution range | Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml |
| Application notes | Optimal dilution of the recombinant MCM7 antibody should be determined by the researcher. |
| Antibody Type | Primary Antibody |
| Clone Number | rMCM7/1468 |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Expiration Date | 12 months from date of receipt. |



Western blot testing of human samples with recombinant MCM7 antibody (clone rMCM7/1468). Expected molecular weight: 80-90 kDa.



IHC testing of FFPE human tonsil with recombinant MCM7 antibody (clone rMCM7/1468). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min.

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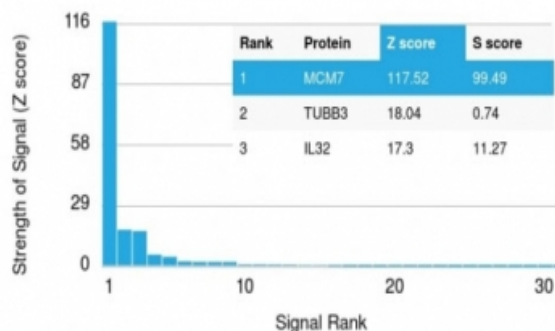
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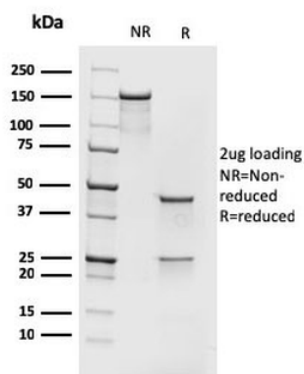
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Human Protein Microarray Specificity Validation



Protein array validation of the MCM7 antibody: Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using recombinant MCM7 antibody (clone rMCM7/1468). These results demonstrate the foremost specificity of the rMCM7/1468 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant MCM7 antibody (clone rMCM7/1468) as confirmation of integrity and purity.

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