

# Product Datasheet

## MCM7 Antibody (MCM7/1468)

### NBP2-59610-100ug

Unit Size: 100 ug

Store at 4C.

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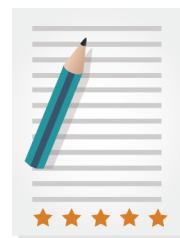
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**NBP2-59610-100ug**

MCM7 Antibody (MCM7/1468)

| Product Information     |                          |
|-------------------------|--------------------------|
| Unit Size               | 100 ug                   |
| Concentration           | 0.2 mg/ml                |
| Storage                 | Store at 4C.             |
| Clonality               | Monoclonal               |
| Clone                   | MCM7/1468                |
| Preservative            | 0.05% Sodium Azide       |
| Isotype                 | IgG2b                    |
| Purity                  | Protein A or G purified  |
| Buffer                  | 10 mM PBS with 0.05% BSA |
| Target Molecular Weight | 88 kDa                   |

| Product Description     |   |
|-------------------------|---|
| Description             | <p>Human Chromosome Location:7q21.3-q22.1</p> <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-59611)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>  |
| Host                    | Mouse   |
| Gene ID                 | 4176  |
| Gene Symbol             | MCM7  |
| Species                 | Human   |
| Marker                  | Proliferation Marker  |
| Specificity/Sensitivity | <p>The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. 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> |
| Immunogen               | Recombinant human MCM7 protein fragment (aa195-319) (Uniprot: P33993)   |

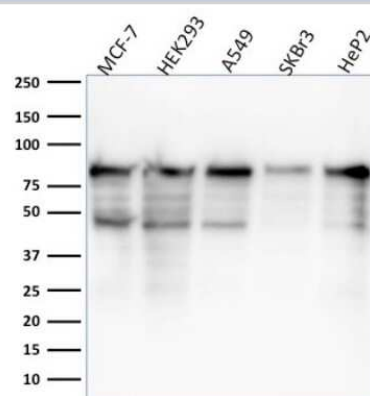
| Product Application Details |   |
|-----------------------------|---|
| Applications                | Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array                                  |
| Recommended Dilutions       | Western Blot 1-2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array 1:100-1:2000 |

**Application Notes**

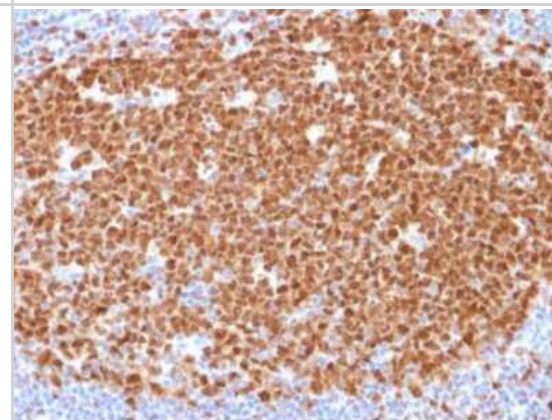
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

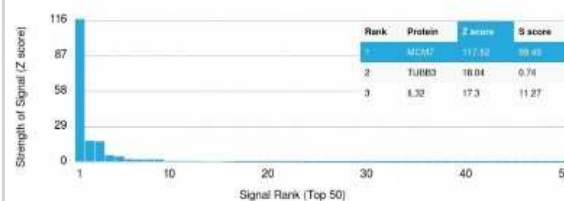
Western Blot: MCM7 Antibody (MCM7/1468) [NBP2-59610] - Western Blot Analysis of MCF-7, HEK-293, A549, SKBr3, HeP2 lysate using MCM7 Antibody (MCM7/1468).



Immunohistochemistry-Paraffin: MCM7 Antibody (MCM7/1468) [NBP2-59610] - Formalin-fixed, paraffin-embedded human Tonsil stained with MCM7 Mouse Monoclonal Antibody (MCM7/1468).



Protein Array: MCM7 Antibody (MCM7/1468) [NBP2-59610] - Analysis of Protein Array containing more than 19,000 full-length human proteins using MCM7 Antibody (MCM7/1468) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5.





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### **Products Related to NBP2-59610-100ug**

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|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP2-27231       | Mouse IgG2b Isotype Control (MPC-11)                    |
| NBP2-51540-0.1mg | Recombinant Human MCM7 His Protein                      |

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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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