

36-2750: Anti-MCM7 (Proliferation Marker) Monoclonal Antibody(Clone: MCM7/1467)

| | |
|--------------------------------|---|
| Clonality : | Monoclonal |
| Clone Name : | MCM7/1467 |
| Application : | FACS,IF,IHC |
| Reactivity : | Human |
| Gene : | MCM7 |
| Gene ID : | 4176 |
| Uniprot ID : | P33993 |
| Alternative Name : | CDC47; DNA replication licensing factor MCM7; MCM7 mini chromosome maintenance deficient 7; Mini chromosome Maintenance 7; Mini chromosome maintenance protein 7; P1.1-MCM3; P1CDC47; P85MCM; PNAS146 |
| Isotype : | Mouse IgG2a, kappa |
| Immunogen Information : | Recombinant human MCM7 protein fragment (aa195-319) (exact sequence is proprietary) |

Description

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.

Product Info

| | |
|----------------------------|---|
| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); 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 95°C followed by cooling at RT for 20 minutes);

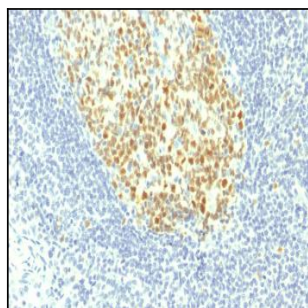


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with MCM7 Mouse Monoclonal Antibody (MCM7/1467).

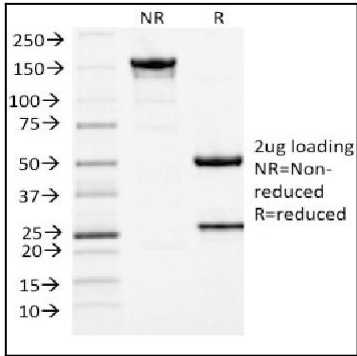


Fig. 2: SDS-PAGE Analysis Purified MCM7 Mouse Monoclonal Antibody (MCM7/1467). Confirmation of Integrity and Purity of Antibody.

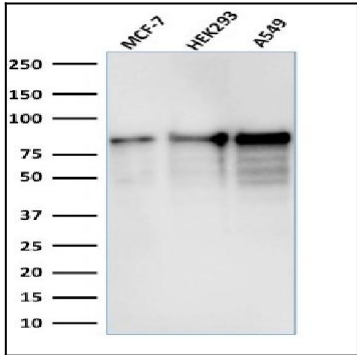


Fig. 3: Western Blot Analysis of MCF-7, HEK-293, A549 lysate using MCM7 Mouse Monoclonal Antibody (MCM7/1467).

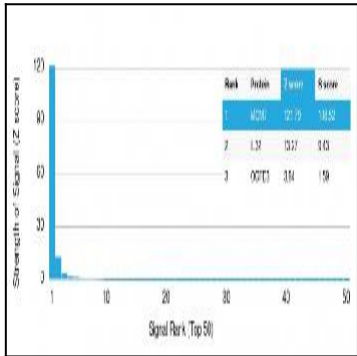


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using MCM7 Mouse Monoclonal Antibody (MCM7/1467) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.