

## DESCRIPTION

|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human  |
| <b>Specificity</b>        | Detects human MCM7 in direct ELISAs and Western blots.   |
| <b>Source</b>             | Monoclonal Rabbit IgG Clone # 2068B  |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human MCM7<br>Gly188-Ala328<br>Accession # P33993  |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|   | Recommended Concentration       | Sample  |
|---|---------------------------------|---|
| <b>Intracellular Staining by Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells | HeLa human cervical epithelial carcinoma cell line fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # <a href="#">FC012</a> ) |

## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                  |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

MCM7/minichromosome maintenance complex component 7, is a highly conserved mini-chromosome maintenance protein, with ATP binding, DNA helicase activity and single-stranded DNA binding. MCM7 forms a hexameric protein complex with MCM2, 4 and 6 proteins that has DNA helicase activity essential for the initiation of gene replication. MCM7 also binds to RAD17 to mediate ATR recruitment to damaged DNA. MCM7 expression is repressed in quiescent cells but induced in late G1 to S phase by growth factor stimulation. It is up-regulated in many cancers including colorectal, T cell lymphomas, glioblastoma, and has prognostic value for hepatocellular carcinoma and gastric adenocarcinoma.

## PRODUCT SPECIFIC NOTICES

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