**MCM3 Antibody (monoclonal) (M01)**
*Mouse monoclonal antibody raised against a partial recombinant MCM3. Catalog # AT2819a*

**Specification**

**MCM3 Antibody (monoclonal) (M01) - Product Information**

<table>
<thead>
<tr>
<th>Application</th>
<th>IF, WB, E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Accession</td>
<td>P25205</td>
</tr>
<tr>
<td>Other Accession</td>
<td>NM_002388</td>
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<tr>
<td>Reactivity</td>
<td>Human, Mouse</td>
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<tr>
<td>Host</td>
<td>mouse</td>
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<tr>
<td>Clonality</td>
<td>Monoclonal</td>
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<tr>
<td>Isotype</td>
<td>IgG2a Lambda</td>
</tr>
<tr>
<td>Calculated MW</td>
<td>90981</td>
</tr>
</tbody>
</table>

**MCM3 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 4172

**Other Names**
DNA replication licensing factor MCM3, DNA polymerase alpha holoenzyme-associated protein P1, P1-MCM3, RLF subunit beta, p102, MCM3

**Target/Specificity**
MCM3 (NP_002379, 699 a.a. ~ 808 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**
WB ~~1:500~1000

**Format**
Clear, colorless solution in phosphate buffered saline, pH 7.2.

**Storage**
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**
MCM3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

**MCM3 Antibody (monoclonal) (M01) - Protocols**
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

**MCM3 Antibody (monoclonal) (M01) - Images**

Immunofluorescence of monoclonal antibody to MCM3 on HeLa cell. [antibody concentration 10 ug/ml]

Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa).

MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in
human colon.

MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in HeLa (Cat # AT2819a)

MCM3 monoclonal antibody (M01), clone 4F7 Western Blot analysis of MCM3 expression in COLO 320 HSR (Cat # AT2819a)

MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in Raw 264.7(Cat # AT2819a)
MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in A-431 (Cat # AT2819a)

MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in Daoy.

MCM3 monoclonal antibody (M01), clone 4F7. Western Blot analysis of MCM3 expression in K-562 (Cat # AT2819a)
Detection limit for recombinant GST tagged MCM3 is 0.1 ng/ml as a capture antibody.

**MCM3 Antibody (monoclonal) (M01) - Background**

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with, and thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression.

**MCM3 Antibody (monoclonal) (M01) - References**


