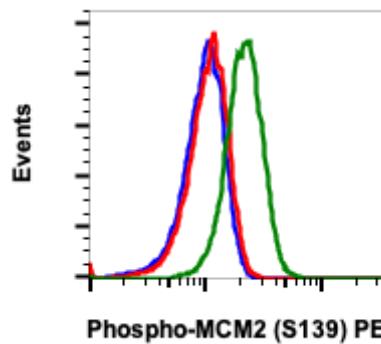


For Research Use Only. Not For Use In Diagnostic Procedures.

| Applications | Detection | Clonality | Isotype |
|----------------|-----------|------------|-------------|
| Flow Cytometry | N/A | Monoclonal | Rabbit IgGk |

| | |
|---------------------------|--|
| Format: | PE |
| Cross Reactivity: | Predicted to work with mouse, rat and other homologues. |
| Formulation: | 1X PBS, 0.09% NaN ₃ , 0.2% BSA |
| Preparation: | Protein A+G |
| Reactivity: | Human, Mouse, Rat |
| Recommended Usage: | For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information. |
| Immunogen: | A synthetic phospho-peptide corresponding to residues surrounding Ser139 of human phospho MCM2 |
| Description: | The members of minichromosome maintenance (McM) protein family 2-7 were originally identified as a group of proteins essential for DNA replication (chromosomal maintenance (1,2). They share common sequence homology to each other in their nucleotide-binding domains and are distinct subgroup of the large AAA ATPase family, which are required for the initiation and elongation of DNA replication. It has been reported that Cdc7/Dbf4 phosphorylates MCM2 during G1/S cell cycle which coincides with the initiation of DNA replication (3,4). |
| References: | <ol style="list-style-type: none"> 1. Bell S.P. and Dutta A. (2002) Annu Rev Biochem 71:333-74. 2. Chong J.P. et al., (1995) Natur 375: 418-21. 3. Donovan S. et al., 1997) Proc Natl Acad Sci USA, 94:5611-6. 4. Tsuji T et al., (2006) Mol Biol Cell 17:4459-72. |



Flow cytometric analysis of C6 cells, untreated and unstained as negative control (blue) or untreated (red) or treated with staurosporine (green) and stained using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 PE conjugate. Cat. #2432.