

**bs-10608R****[ Primary Antibody ]****phospho-MCM2 (Ser53) Rabbit pAb****BioSS**  
**ANTIBODIES**

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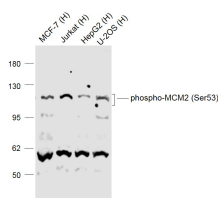
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4171 <b>Target:</b> MCM2 (Ser53) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human MCM2 around the phosphorylation site of Ser53: DE(p-S)EG. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> 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 forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]	<b>Isotype:</b> IgG <b>SWISS:</b> P49736 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Zebrafish, Chicken, Dog, Horse) <b>Predicted MW.:</b> 101 kDa <b>Subcellular Location:</b> Nucleus
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**— VALIDATION IMAGES —**

Sample: Lane 1: MCF-7 (Human) Cell Lysate at 30 ug  
Lane 2: Jurkat (Human) Cell Lysate at 30 ug  
Lane 3: HepG2 (Human) Cell Lysate at 30 ug  
Lane 4: U-2OS (Human) Cell Lysate at 30 ug  
Primary: Anti-phospho-MCM2 (Ser53) (bs-10608R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 120 kD  
Observed band size: 120 kD

**— SELECTED CITATIONS —**

- **[IF=11.4]** Yoshitami Hashimoto. et al. Novel role of DONSON in CMG helicase assembly during vertebrate DNA replication initiation. EMBO J. 2023 Jul 17 WB ;Xenopus laevis. 37458194