

# Phospho-MCM2 (Ser139) (B12) rabbit mAb

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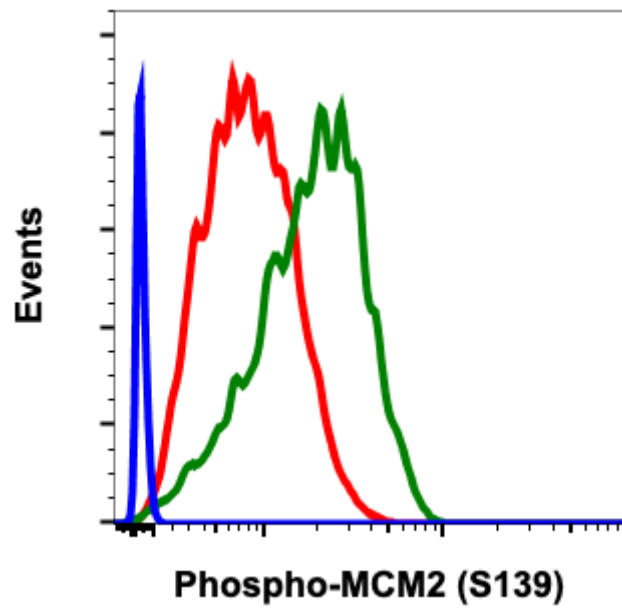
**Catalog:** #2431

**Store at:** -20°C

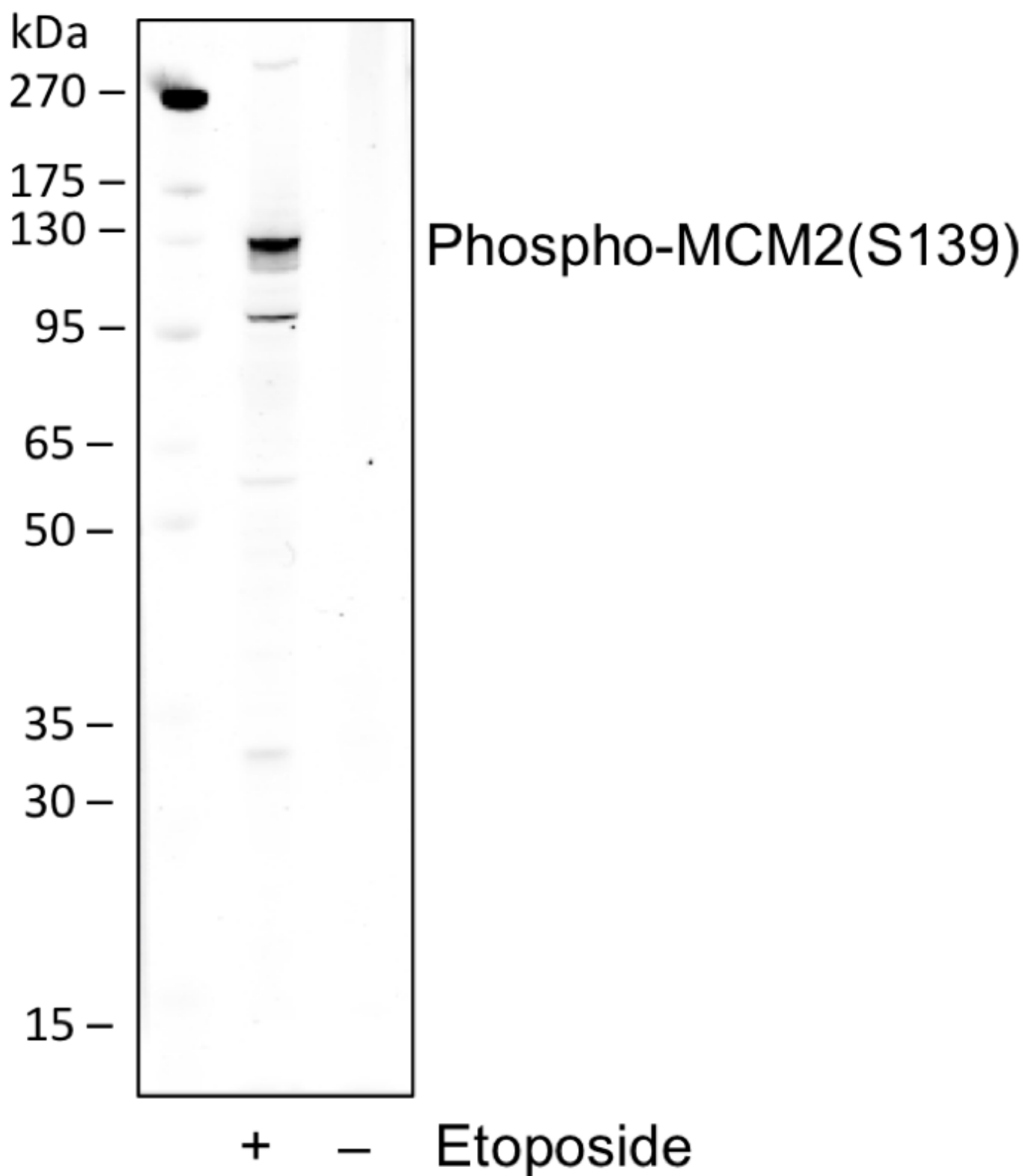
*For Research Use Only. Not For Use In Diagnostic Procedures.*

Applications	Detection	Clonality	Isotype
Flow Cytometry, WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

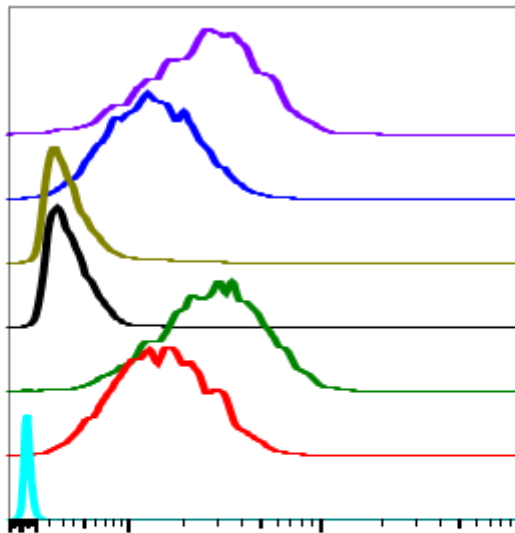
<b>Format:</b>	Unconjugated
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat and other homologues.
<b>Formulation:</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Preparation:</b>	Protein A+G
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Recommended Usage:</b>	1µg/mL - 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.
<b>Immunogen:</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser139 of human phospho MCM2
<b>Description:</b>	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)
<b>References:</b>	<ol style="list-style-type: none"><li>1. Bell S.P. and Dutta A. (2002) Annu Rev Biochem 71:333-74.</li><li>2. Chong J.P. et al., (1995) Nature 375: 418-21.</li><li>3. Donovan S. et al., (1997) Proc Natl Acad Sci USA, 94:5611-6.</li><li>4. Tsuji T et al., (2006) Mol Biol Cell 17:4459-72.</li></ol>



Flow cytometric analysis of C6 cells, secondary antibody only negative control (blue) or untreated (red) or treated with staurosporine (green) using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 at 0.01  $\mu\text{g/mL}$ . Cat. #2431.

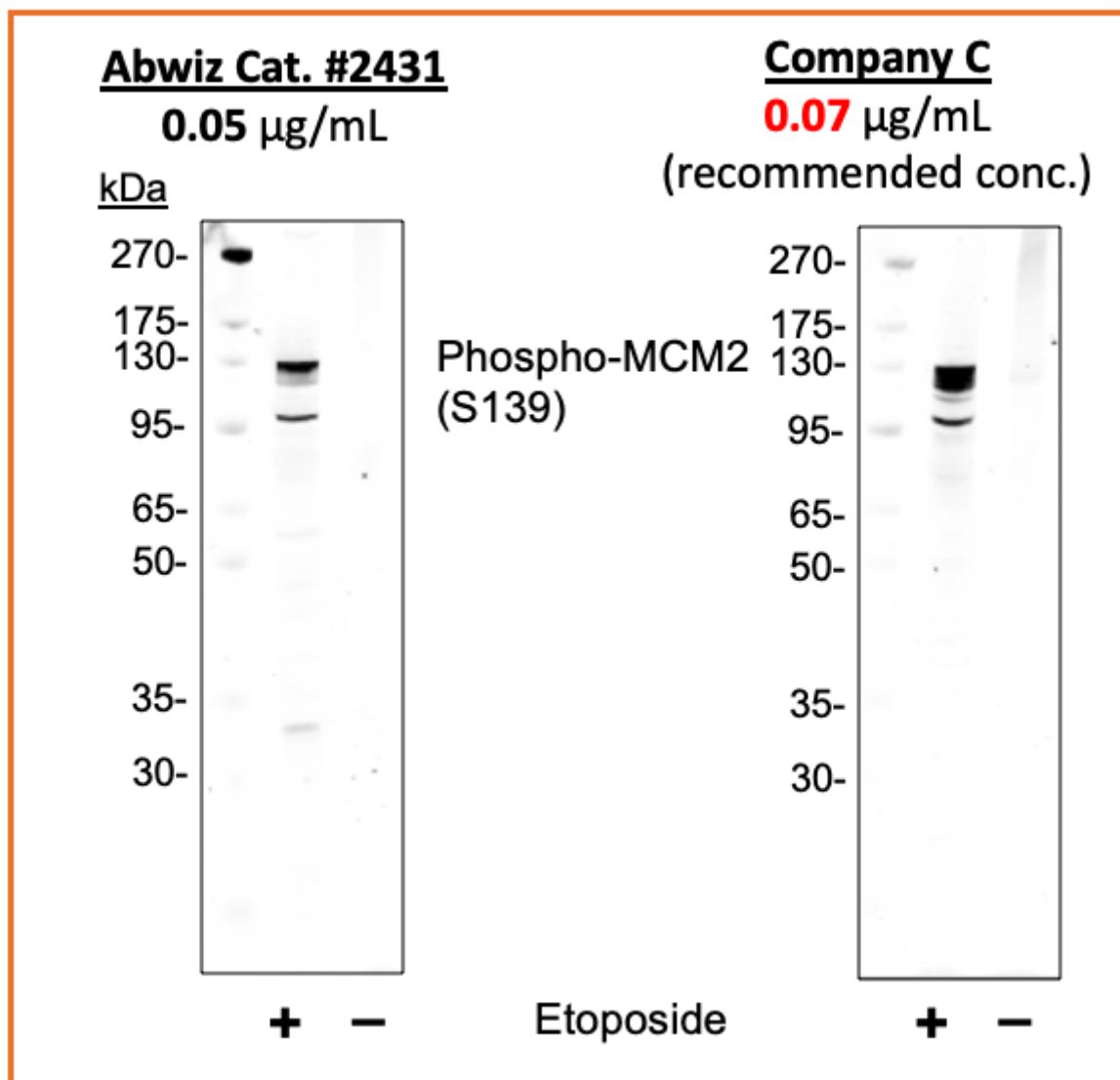


Western blot analysis of L929 cell extract untreated or treated with 25uM etoposide using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 at 0.05 ug/mL. Cat. #2431.

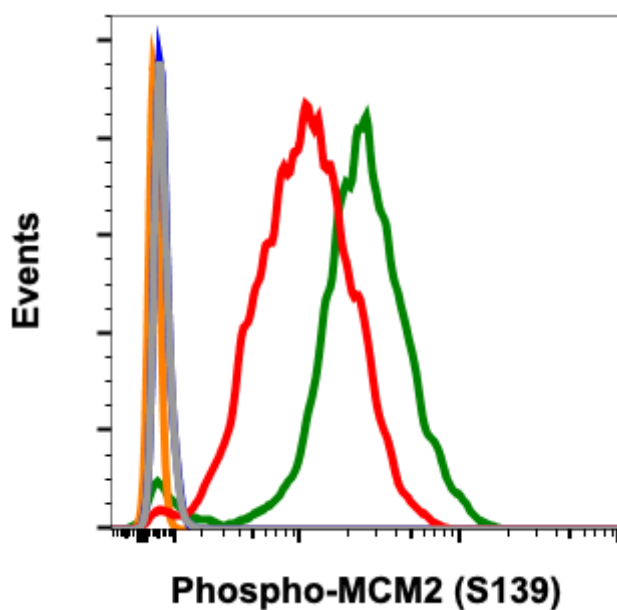


	IgG	Treatment	Peptide Block	Median : BL1-A
■	B12	Staur	Non-phos.	26783
■	B12	Ctrl	Non-phos.	13392
■	B12	Staur	Phospho.	3246
■	B12	Ctrl	Phospho.	3303
■	B12	Staur	-	28502
■	B12	Ctrl	-	15243
■	2' only	Ctrl	-	369

Peptide blocking flow cytometric analysis of C6 cells secondary antibody only negative control (light blue) or untreated (red) or treated with staurosporine (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 at 0.1 µg/mL. Cat. #2431.



Western blot analysis of L929 cell extract untreated or treated with etoposide using 0.05 ug/mL Phospho-MCM2 (Ser139) antibody MCM2S139-B12. Cat.#2431 or Company C antibody at 0.07 ug/mL (manufacturer's recommended concentration) developed using the same exposure.



Flow cytometric analysis of A431 cells, secondary antibody only negative control (blue), or untreated (grey) or treated with staurosporine (orange) using 0.01 ug/mL isotype control Cat. #2141, or untreated (red) or treated (green) using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 at 0.01 µg/mL. Cat. #2431.