Phospho-MCM2 (Ser139) (B12) rabbit mAb

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Catalog: #2431

Store at: -20ºC

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

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

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse,Rat

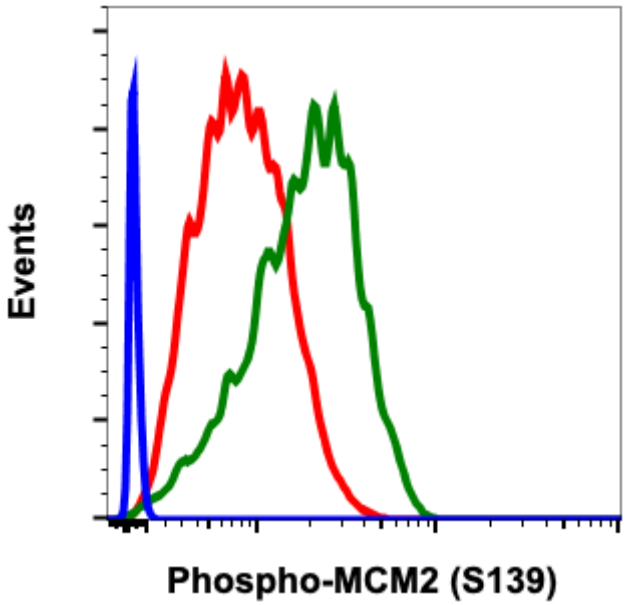
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser139 of human phospho MCM2

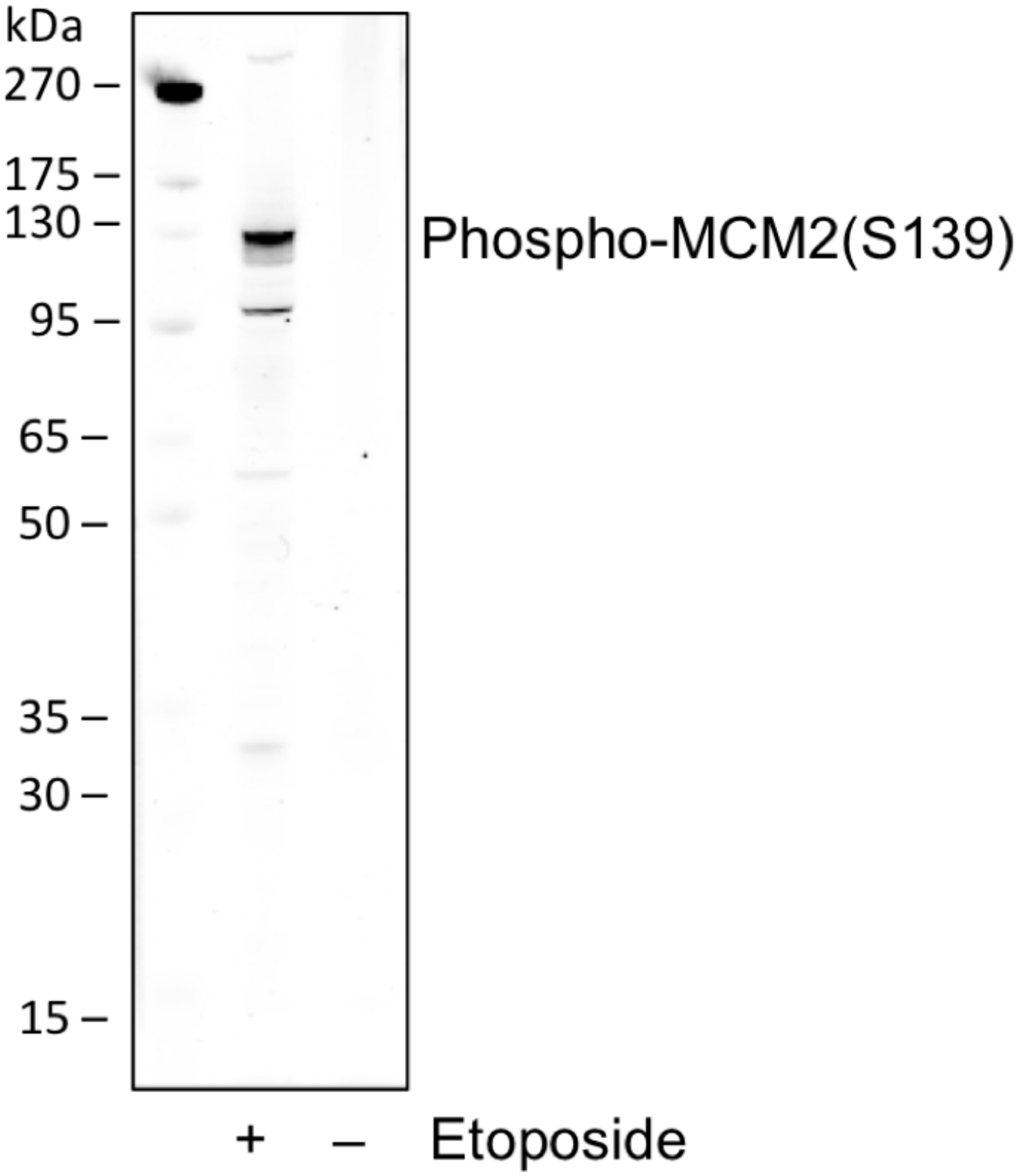
Description: The members of minichromosome maintenance (McM) protein family 2-7 were originally identified as a group of proteins essential for DNA replication (chromosomal maintenance (1,2). They share common sequence homology to each other in their nulceotide-binding domains and are distinct subgroup of the large AAA ATPase family, which are required for the initiation and elongation of DNA replication. It has been reported that Cdc7/Dbf4 phospohrylates MCM2 during G1/S cell cycle which coincides with the intiation of DNA replication (3,4)

References:

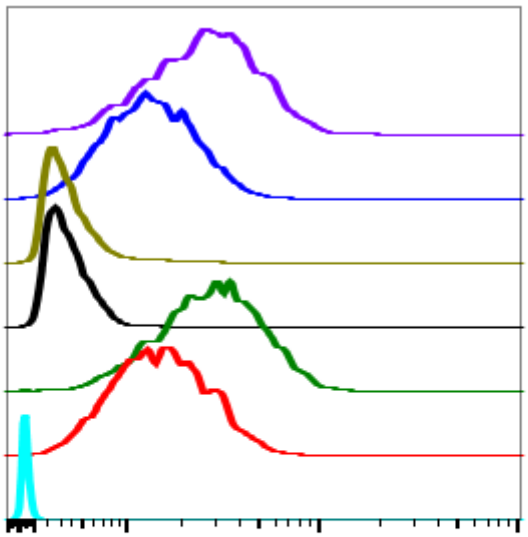
1. Bell S.P. and Dutta A. (2002) Annu Rev Biochem71:333-74.
2. Chong J.P. et al., (2995) Natur 375: 418-21.
3. Donovan S. et al., 1997) Proc Natl Acad Sci USA, 94:5611-6.
4. Tsuji T et al., (2006) Mol Biol Cell17:4459-72.



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 µg/mL. Cat. #2431.

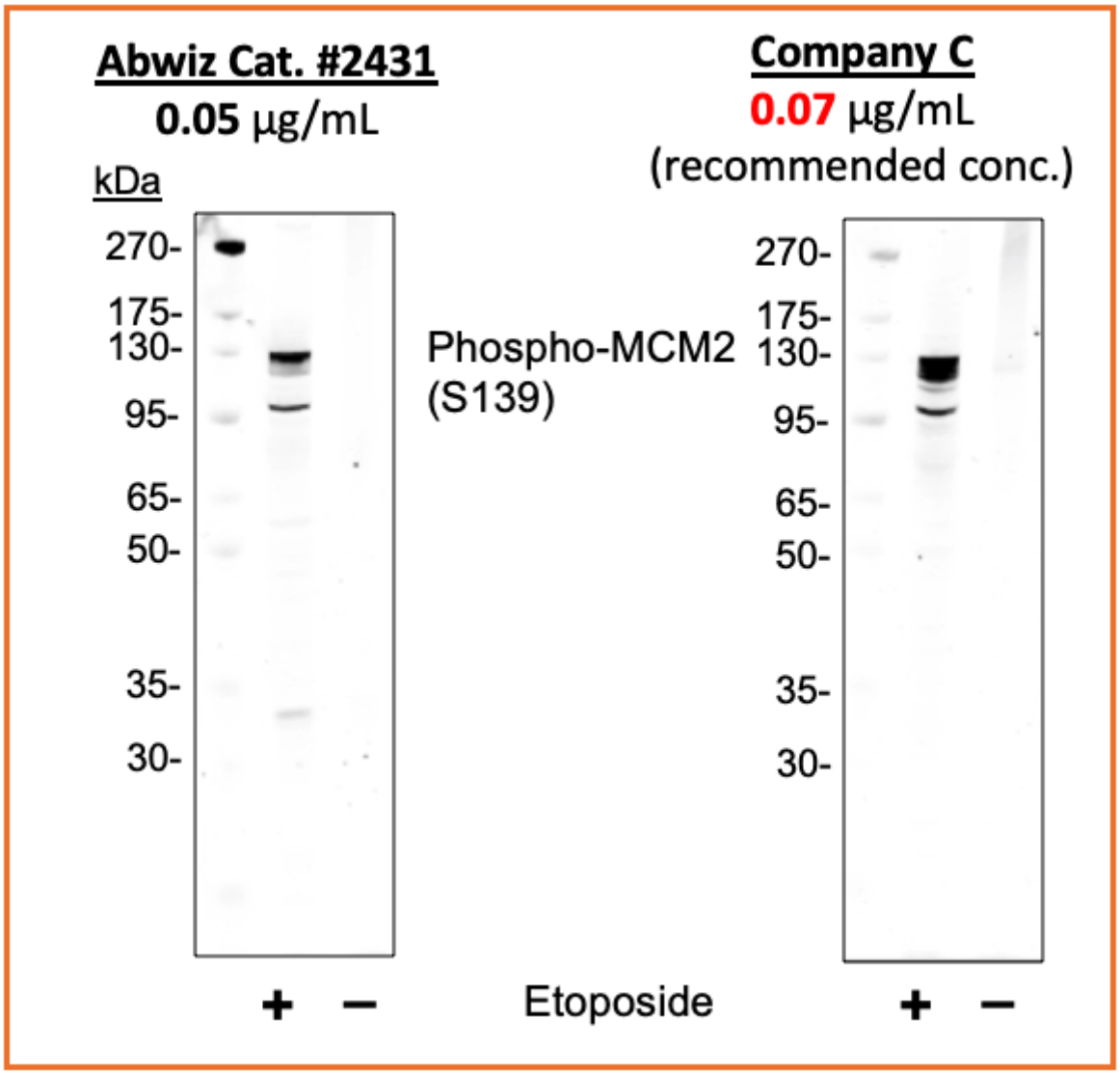


Western blot analysis of L929 cell extract untreated or treated with 25uM etoposide using Phospho-MCM2 (Ser139) antibody MCM2S139-B12 at 0.05 ug/mL. Cat. #2431.

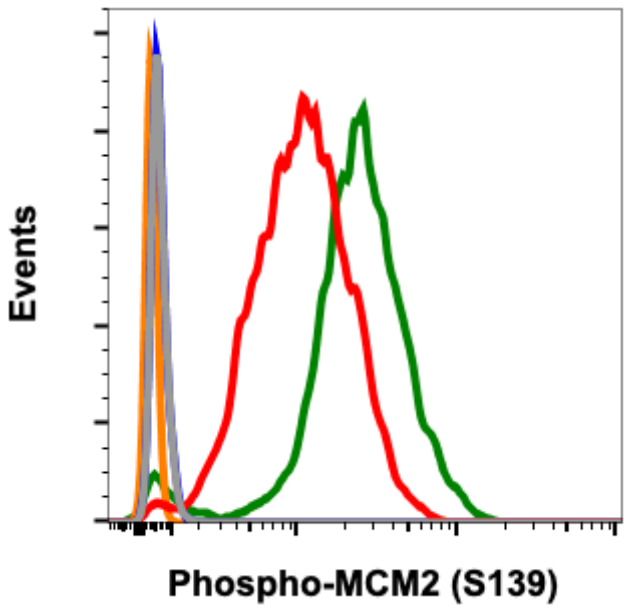


	IgG	Treatment	Peptide Block	Median : BL1-A
	B12	Staur	Non-phos.	26783
	B12	Ctrl	Non-phos.	13392
	B12	Staur	Phospho.	3246
	B12	Ctrl	Phospho.	3303
	B12	Staur	-	28502
	B12	Ctrl	-	15243
	2' only	Ctrl	-	369

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.