Phospho-Histone H3 (Ser10) (4B6) rabbit mAb

www.abwizbio.com
Support: info@abwizbio.com
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#2061

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

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 Ser10 of human phospho histone H3

Description: Histones are highly conserved proteins that serve the core of nucleosomes, which serve to organize chromatin fiber for DNA packing. Histone H3 phosphorylation plays a major role in both transcriptional activation, which requires unpacking of the chromatin structure, and in chromosome packing during cell division. Histone H3 is phosphorylated at residues Ser10 and Ser28, and is acetylated at Lys14. Phosphorylation at Ser10 occurs during entry into mitosis prior to chromatin condensation, and phosphorylation at Ser28 follows a similar pattern. In response to EGF stimulation, it has been proposed that sequential Ser10 phosphorylation, then Lys14 acetylation occurs, causing a change in chromatin structure and gene activation.

References:

Hans F and Dimitrov S. (2001) Oncogene. 20: 3021-3027.
Cheung P, Tanner KG, Cheung WL, et al. (2000) Molecular Cell. 5: 905-915.

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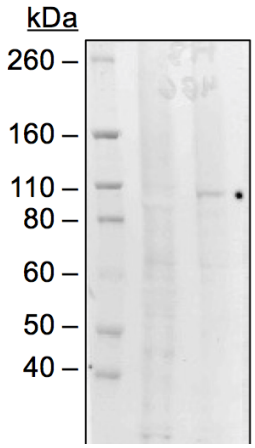
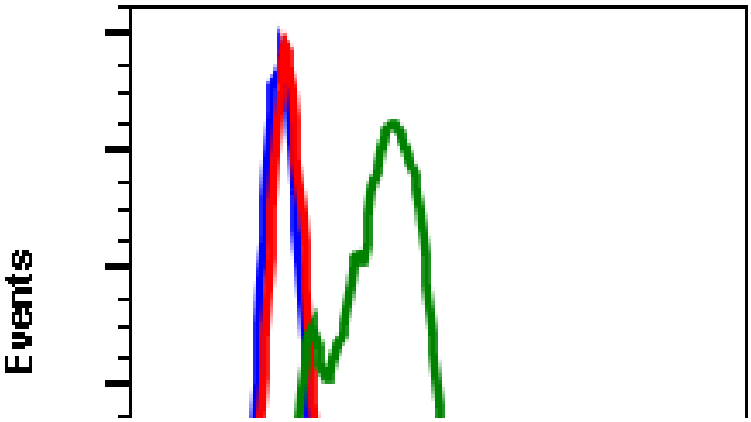
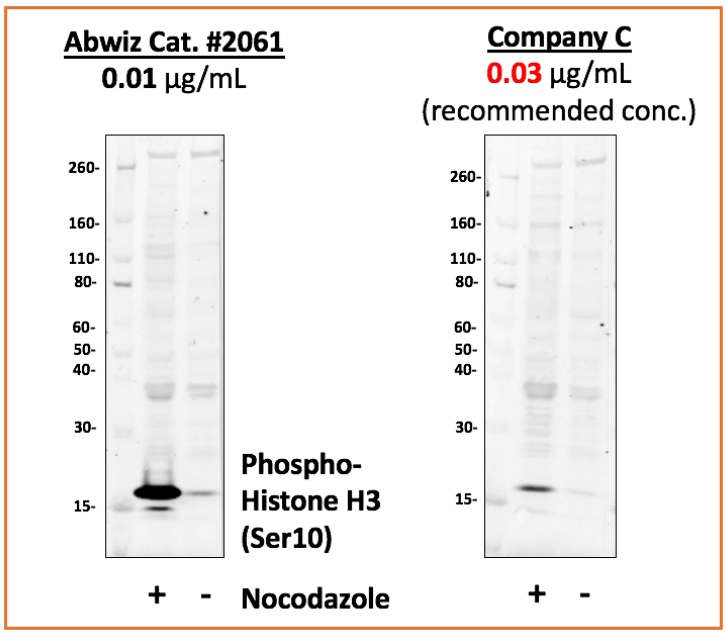


Western blot analysis of Jurkat cell extract untreated or treated with calyculin A using Phospho-Histone H3 (Ser10) antibody HisH3S10-4B6. Cat. # 2061.



Flow cytometric analysis of Hela cells secondary antibody only negative control (blue) or untreated (red) or treated with nocodazole (green) using Phospho-Histone H3 (Ser10) antibody HisH3S10-4B6. Cat. #2061.



Western blot analysis of A549 cell extract untreated or treated with nocodazole using 0.01 µg/mL Phospho-Histone H3 (Ser10) antibody HisH3S10-4B6 Cat. #2061 or Company C antibody at 0.03 µg/mL (manufacturer?s recommended concentration) developed using the same exposure.

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