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Product Data Sheet: Purified anti-phospho-Histone H3 (Ser10) rabbit mAb

Catalog Number:	2061
Clone:	HisH3S10-4B6
Isotype:	Rabbit IgG1κ
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Ser10 of human phospho histone H3
Reactivity:	Human
Cross Reactivity:	Same target other species with same sequence
Preparation:	Protein A+G
Formulation:	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Applications:	WB,Flow Cytometry
Recommended Usage:	1- 0.1 µg/ml. Optimum concentration should be determined by the user.
Product Configuration:	200 ul (0.5mg/ml, more than 200 western blots)
Detection:	Anti-Rabbit IgG

Description

Histone H3 is one of the five main histone proteins involved in chromatin structure modification in eukaryotic cells. Histone proteins are highly post-translationally modified, including acetylation, phosphorylation, methylation and ubiquitination. Phospho histone H3 is the most extensively modified of the five histones. Phospho histone H3 is primarily acetylated at Lys9, 14, 18 and 23. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10, Ser28 and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis. The term "Histone H3" alone is purposely ambiguous in that it does not distinguish between sequence variants or modification state.

References

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2. Lachner M et al. (2001) Nature 410: 116–20.

3. Hansen JC, et al. (1998) Biochemistry 37: 17637-41.

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5. Cheung P, et al. (2000) Cell 103: 263-271.

6. Bernstein BE, and Schreiber SL (2002) Chem. Biol. 9, 1167-1173.

7. Thorne AW, et al. (1990) Eur. J. Biochem. 193: 701-713.

8. Hendzel MJ, et al. (1997) Chromosoma 106: 348-360.

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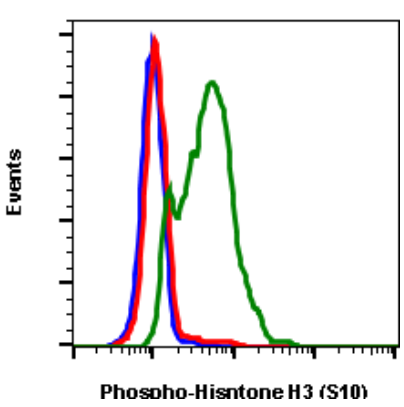
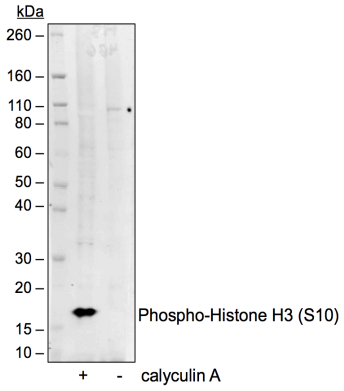
Purified anti-phospho-Histone H3 (Ser10) rabbit mAb Images



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