

Product Data Sheet: Conjugated anti-phospho-Histone H3 (Ser28) PE rabbit mAb

Catalog Number:	2047
Clone:	HisH3S28-D6
Isotype:	Rabbit IgG1κ
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Ser28 of human phospho Histone H3
Reactivity:	Mouse, Human
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.
Preparation:	Protein A+G
Formulation:	1X PBS, 0.09% NaN ₃ , 0.2% BSA
Applications:	Flow Cytometry
Recommended Usage:	For flow cytometric staining, the suggested use of this reagent is 5 μl per million cells or 5 μl per 100 μl of staining volume. It is recommended that the reagent be titrated for optimal performance for each application
Product Configuration:	100 tests
Detection:	Anti-Rabbit IgG

Description

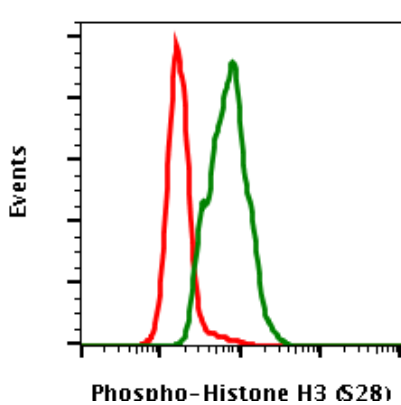
Histone H3 is one of the five main histone proteins involved in chromatin structure modification in eukaryotic cells. Histone proteins are highly post-translationally modified, including acetylation, phosphorylation, methylation and ubiquitination. Phospho histone H3 is the most extensively modified 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

1. Rosenfeld JA et al. (2009) BMC Genomics. 10: 143.
2. Lachner M et al. (2001) Nature. 410: 116-20.
3. Hansen, JC et al. (1998) Biochemistry. 37: 17637-17641.
4. Strahl, BD and Allis, CD (2000) Nature. 403: 41-45.
5. Cheung, P et al. (2000) Cell. 103: 263-271.
6. Bernstein, BE and Schreiber, S.L. (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.

9. Goto, H et al. (1999) J. Biol. Chem. 274: 25543-25549.
10. Preuss, U et al. (2003) Nucleic Acids Res. 31: 878-885.

Conjugated anti-phospho-Histone H3 (Ser28) PE rabbit mAb Images



Flow cytometric analysis of HeLa cells, stained and untreated (red) or stained and treated with nocodazole (green) using Phospho-Histone H3 (Ser28) PE-conjugated antibody at 0.05 ug/mL HisH3S28-D6. Cat. #2047.