

Product Data Sheet

Purified anti-Histone H3-Phosphorylated (Ser28)

Catalog # / Size: 641001 / 25 µg
641002 / 100 µg

Clone: HTA28

Isotype: Rat IgG2a, κ

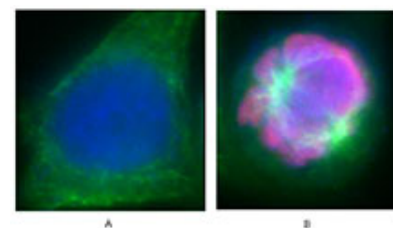
Immunogen: Synthetic peptide conjugated to KLH, corresponding to amino acids 23-35 of Human Histone H3.

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store at 4°C.



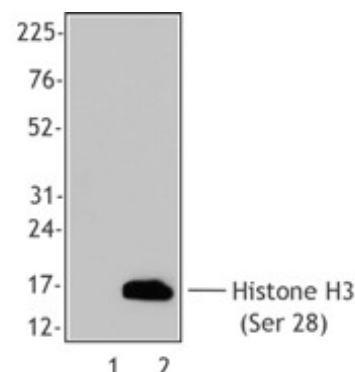
Untreated HeLa (Panel A) and overnight nocodazole-treated HeLa (Panel B) were stained with purified rat monoclonal antibody against phospho-H3 (Ser28) (clone HTA28), followed by Alexa Fluor® 488 anti-alpha-tubulin, DyLight™ 594 goat anti-rat-IgG and DAPI.

Applications:

Applications: WB - Quality tested
IP, ICFC, IF - Reported in the literature
CyTOF® - Validated

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Hirata A, et al. 2004. *J. Histochem. Cytochem.* 52:1503.
2. Goto H, et al. 1999. *J. Biol. Chem.* 274:25543.
3. Ozawa K. 2008. *Cytometry A* 73:517.



Western blot analysis of extracts from untreated HeLa cells (lane 1) or overnight nocodazole-treated HeLa cells (lane 2), using anti-phospho-Histone H3 (Ser28), clone HTA28.

Description: H3 is a core component of the nucleosome that serves to wrap and compact DNA into chromatin. Histones therefore, limit the accessibility of DNA, providing mechanisms for transcription regulation, DNA repair and replication and chromosomal stability. During mitosis, H3 is phosphorylated at serine 28. This phosphorylation coincides with chromosome condensation initiated at prophase and disappears at late anaphase. H3 has been demonstrated to be phosphorylated by the action of MLTK-α (mixed lineage kinase-like mitogen activated protein triple kinase α) in response to ultraviolet B light and epidermal growth factor, as well as Aurora-B during mitosis.

Antigen References: 1. Choi HS, et al. 2005. *J. Biol. Chem.* 280:13545.
2. Goto H, et al. 2002. *Genes Cells* 7:11.
3. Garcia BA, et al. 2005. *Biochemistry* 44:13202.

Related Products: Product
Purified Rat IgG2a, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK2758

Application
FC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC
FC, ICFC



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