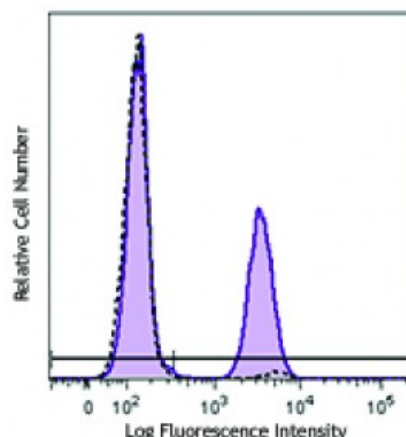


**PE/Cy7 anti-Histone H3-Phosphorylated (Ser28)**

<b>Catalog # / Size:</b>	3805055 / 25 tests 3805060 / 100 tests
<b>Clone:</b>	HTA28
<b>Isotype:</b>	Rat IgG2a, $\kappa$
<b>Immunogen:</b>	Synthetic peptide conjugated to KLH, corresponding to amino acids 23-35 of human histone H3.
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	0.2



HeLa cells (open histogram) and HeLa cells treated with Nocodazole for 24 hours (filled histogram), were fixed, permeabilized, and then stained with anti-Histone H3-Phosphorylated (Ser28) (clone HTA28) PE/Cy7.

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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<b>Application References:</b>	1. Hirata A, et al. 2004. <i>J. Histochem. Cytochem.</i> 52:1503. 2. Goto H, et al. 1999. <i>J. Biol. Chem.</i> 274:25543. 3. Ozawa K. 2008. <i>Cytometry A</i> 73:517. 3. Goode NJ, et al. 2014. <i>PLoS Genet.</i> 10:1004323. <a href="#">PubMed</a>
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<b>Description:</b>	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- $\alpha$ (mixed lineage kinase-like mitogen activated protein triple kinase $\alpha$ ) in response to ultraviolet B light and epidermal growth factor, as well as Aurora-B during mitosis.
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- Antigen** 1. Choi HS, *et al.* 2005. *J. Biol. Chem.* 280:13545.
- References:** 2. Goto H, *et al.* 2002. *Genes Cells* 7:11.
3. Garcia BA, *et al.* 2005. *Biochemistry* 44:13202.