

Product Data Sheet

Alexa Fluor® 647 anti-Histone H3-Phosphorylated (Ser28)

Catalog # / Size: 641005 / 25 tests
641006 / 100 tests

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, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: ICFC - *Quality tested*

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

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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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
Alexa Fluor® 647 Rat IgG2a, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK2758

Application
FC, ICFC
FC, ICC, ICFC
FC, ICFC



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