## 12-4155: Phospho-Histone H3 (Ser10) (Clone: 4B6) rabbit mAb FITC conjugate

| Clonality : | Monoclonal |
| :--- | :--- |
| Clone Name : | HisH3S10-4B6 |
| Application : | FACS |
| Reactivity : | Human |
| Conjugate: | FITC |
| Format : | Conjugated |
| Alternative Name : | Histone H3.1t, H3t, H3FT, HIST3H3 |
| Isotype : | Rabbit IgG1k |
| Immunogen Information $:$A synthetic phospho-peptide corresponding to residues surrounding Ser10 of human phospho <br> histone H3 |  |

## Description

Histones are highly conserved proteins that serve the core of nucleosomes, which serve to organize chromatin fiber for DNA packing. Histone H3 phosphorylation plays a major role in both transcriptional activation, which requires unpacking of the chromatin structure, and in chromosome packing during cell division. Histone H 3 is phosphorylated at residues Ser10 and Ser28, and is acetylated at Lys14. Phosphorylation at Ser10 occurs during entry into mitosis prior to chromatin condensation, and phosphorylation at Ser28 follows a similar pattern. In response to EGF stimulation, it has been proposed that sequential Ser10 phosphorylation, then Lys14 acetylation occurs, causing a change in chromatin structure and gene activation.

## Product Info

Amount :

## Content :

10 Tests / 100 Tests
1X PBS, 0.09\% NaN3, 0.2\% BSA
Storage condition :
Store at $2-8^{\circ} \mathrm{C}$. Avoid repeated freeze and thaw cycles.

## Application Note

For flow cytometric staining, the suggested use of this reagent is $5 \tilde{A} \square \hat{A} \mu \mathrm{~L}$ per million cells or $5 \tilde{A} \square A ̂ \mu \mathrm{~L}$ per $100 \tilde{A} \square \hat{A} \mu \mathrm{~L}$ of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.


Fig-1: Flow cytometric analysis of Hela cells unstained as negative control (blue) or untreated (red) or treated with nocodazole (green) and stained using PhosphoHistone H3 (Ser10) FITC conjugated antibody HisH3S10-4B6.

