

## Histone H3 (Phospho-S10) polyclonal antibody

Catalog: BS94004

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B, H3 and H4, and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. Histone H3, the core protein of the nucleosome, becomes phosphorylated at the end of prophase. The two major sites of phosphorylation are the mitosis-specific site Ser10, and Ser28, both of which are extensively phosphorylated in DNA-bound forms of histone H3 and in nucleosomal histone H3. The nucleosome structure of histone H3 promotes N-terminal phosphorylation in vitro.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

15 kDa

### Swiss-Prot:

P68431(Human) P84243(Human) Q16695(Human)  
Q6NXT2(Human) Q71DI3(Human) P84244(Mouse)  
P84245(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000-1:5,000

ICC:1:50-1:200

IHC:1:50-1:200

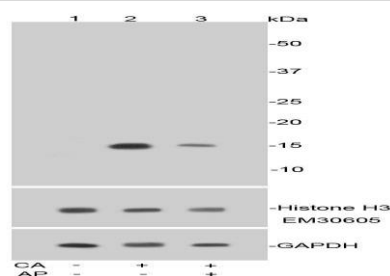
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

Histone H3 (Phospho-S10) polyclonal antibody detects endogenous levels of Histone H3 protein only when phosphorylated at S10.

### DATA:

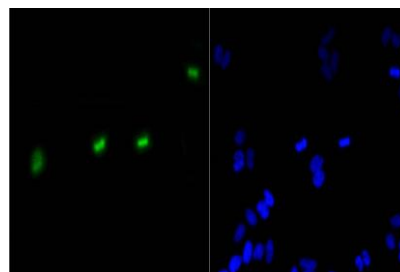


Western blot analysis of Phospho-Histone H3(S10) on HeLa cell lysates using anti-Phospho-Histone H3(S10) antibody at 1/1,000 dilution. Positive control:

Lane 1: Untreated HeLa cell lysate

Lane 2: HeLa cell lysate treated with calyculin A

Lane 3: HeLa cell lysate treated with calyculin A and alkaline phosphatase



ICC staining Phospho-Histone H3(S10) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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