HistoneH3.1(Phospho-Ser10) Antibody

#11184

Catalog Number: 11184-1, 11184-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :P68431

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Histone H3.1 around the phosphorylation site of serine 10 (R-K-Sp-T-G).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

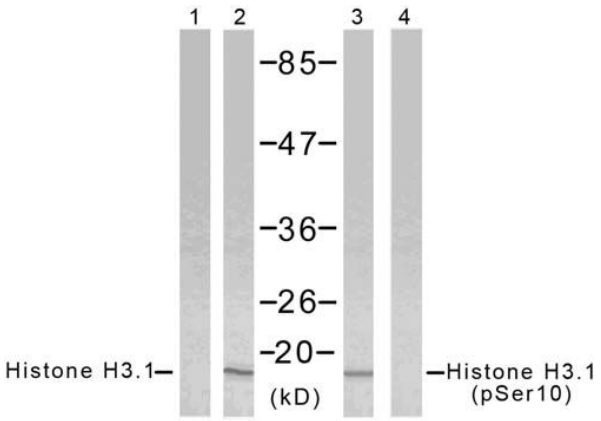
Specificity/Sensitivity: Histone H3.1 (phospho-Ser10) antibody detects endogenous levels of Histone H3.1 only when phosphorylated at serine 10.

Reactivity: Human,Mouse,Rat

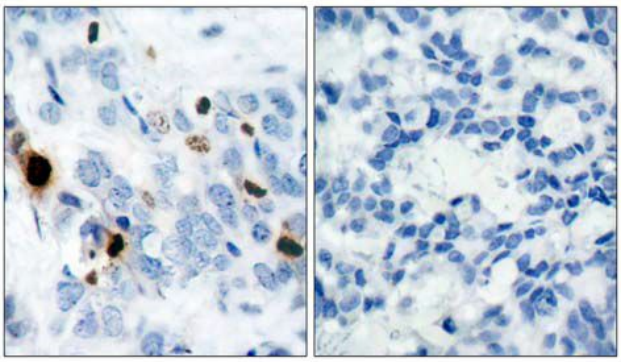
Applications:

Predicted MW: 17 kd

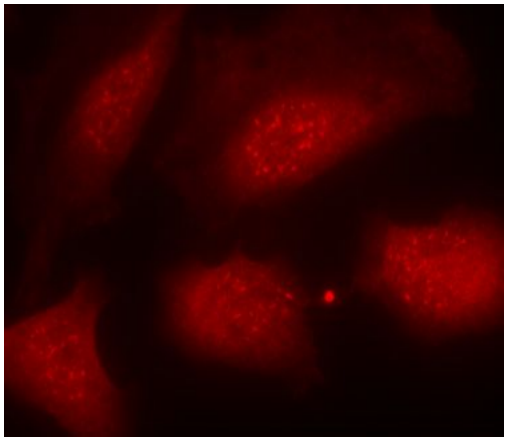
WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:200



Western blot analysis of extract from HeLa cells using Histone H3.1 (Ab-10) antibody (#21137, Lane 1 and 2) and Histone H3.1 (phospho-Ser10) antibody (#11184, Lane 3 and 4)



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H3.1 (phospho-Ser10) antibody (#11184).



Immunofluorescence staining of methanol-fixed HeLa cells using Histone H3.1 (phospho-Ser10) antibody (#11184).

Background :

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling

References：

Dai J, et al. (2005) Genes Dev 19(4): 472-488.
Yih LH, et al. (2005) Carcinogenesis 26(1): 53-63.