



## HistoneH3. 1 (Ab-10) Antibody

#21137

**Catalog Number:** 21137-1, 21137-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** P68431

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized non-phosphopeptide derived from human Histone H3.1 around the phosphorylation site of serine 10 (R-K-S<sub>P</sub>-T-G).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

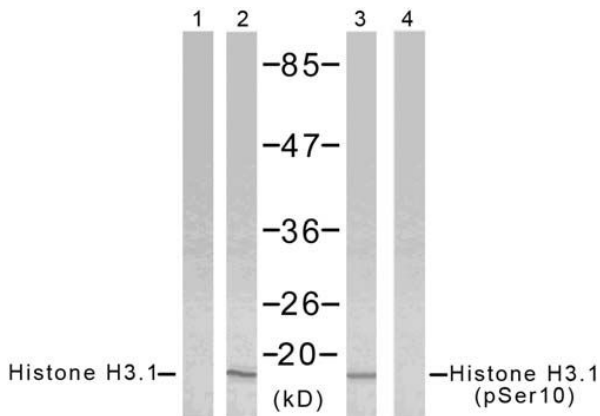
**Specificity/Sensitivity:** Histone H3.1 (Ab-10) antibody detects endogenous levels of total Histone H3.1 protein.

**Reactivity:** Human, Mouse, Rat

**Applications:**

Predicted MW: 17 kd

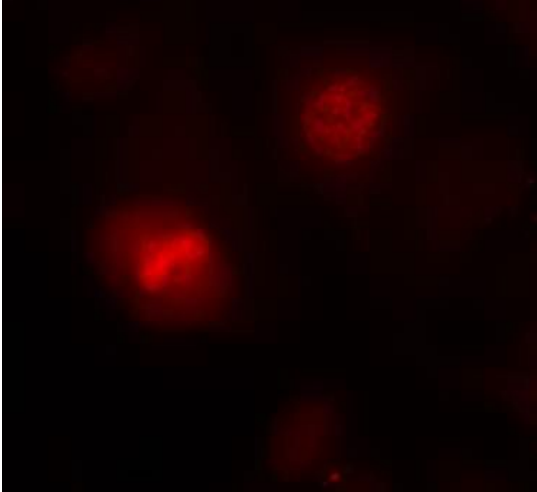
WB: 1:500~1:1000 IF: 1:10~1:200



EGF+Calyculin A - - + -

Peptide + - - -

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)



Immunofluorescence staining of methanol-fixed HeLa cells using Histone H3.1 (Ab-10) antibody (#21137, Red).

**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:**

Guo-Dong Li , Xi Zhang , Rong Li , et al. (2008) CHP2 activates the calcineurin/NFAT signaling pathway and enhances the oncogenic potential of HEK293 cells. JBC, Papers. in Press.

This article references the use of the **#21137** in the following applications :**WB**