

## 35-1174: Polyclonal Antibody to Histone H3.1 (Phospho-Ser10)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB,IHC,IF
<b>Reactivity :</b>	Human,Mouse,Rat
<b>Gene :</b>	HIST1H3A
<b>Gene ID :</b>	8350
<b>Uniprot ID :</b>	P68431
<b>Format :</b>	Purified
<b>Alternative Name :</b>	H3/b,H3FB
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Peptide sequence around phosphorylation site of serine 10 (R-K-S(p)-T-G) derived from Human Histone H3.1.

### Description

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

### Product Info

<b>Amount :</b>	50 µl / 100 µl
<b>Content :</b>	Supplied at 1.0mg/mL 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.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Predicted MW: 17kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

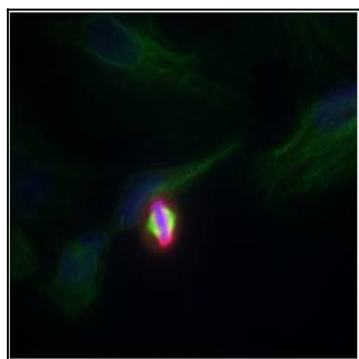


Figure 1: Immunofluorescence staining of methanol-fixed HeLa cells using Histone H3.1 (Phospho-Ser10) Antibody 35-1174 .

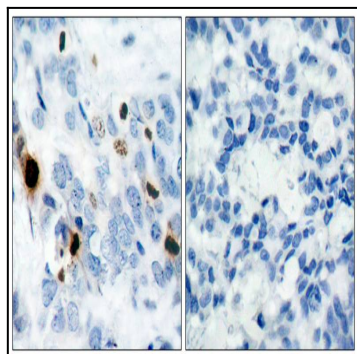


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H3.1(Phospho-Ser10) Antibody 35-1174 (left) or the same antibody preincubated with blocking peptide(right).

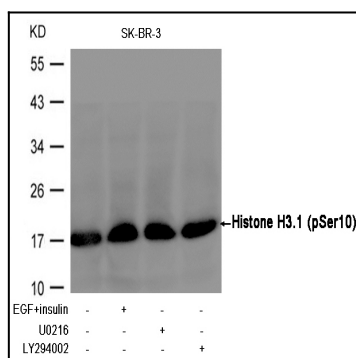


Figure 3: Western blot analysis of extracts from SK-BR-3 cells, treated with insulin and EGF, and pretreated with U0126 and LY294002 cells using Histone H3.1 (Phospho-Ser10) Antibody 35-1174 .

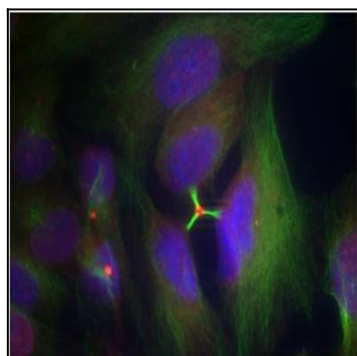


Figure 4: Immunofluorescence staining of methanol-fixed HeLa cells using Histone H3.1 (Phospho-Ser10) Antibody 35-1174 .