## **Product Datasheet**

# Histone H3.1(Phospho-Ser10) Antibody

Catalog No: #11184



Package Size: #11184-1 50ul #11184-2 100ul #11184-4 25ul

## Overview

Product Name	Histone H3.1(Phospho-Ser10) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	Histone H3.1
Modification	Phospho-Ser10
Alternative Names	H3/b, H3FB

## **Application Details**

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

## Images



Immunofluorescence staining of methanol-fixed Hela cells using Histone H3.1 (Phospho-Ser10) Antibody #11184.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H3.1(Phospho-Ser10) Antibody #11184(left) or the same antibody preincubated with blocking peptide(right).



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 #11184.



Immunofluorescence staining of methanol-fixed Hela cells using Histone H3.1 (Phospho-Ser10) Antibody #11184.

#### Descriptions

Specificity	The antibody detects endogenous level of Histone H3.1 onlywhen phosphorylated at serine 10.
Purifiction	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.
	Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho
	specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%
	sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Predicted MW	17
Accession NO.	Swiss-Prot: P68431NCBI Protein: NP_003521.2

## **Related Information**

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.

## **Published Papers**

Jiang el at., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, Molecular Cell, 53(1):75-87(2014)

#### PMID:24316223

Lian-Qing Sun, Ying-Ying Chen, Xuan Wang el at., The protective effect of Alpha lipoic acid on Schwann cells exposed to constant or intermittent high glucose, Biochemical Pharmacology, 84 (2012) 961B<sup>°</sup>C973(2012) PMID:22796564 Yang W, Xia Y, Hawke D el at., PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis., Cell, 150(4):685-696(2012) PMID:22901803

Zenglin Liao, Jiajia Dong, Wei Wu el at., Resolvin D1 attenuates inflammation in lipopolysaccharide-induced acute lung injury through a process involving the PPARB¦C /NF-B¦C B pathway, Respiratory Research , 13:110(2012) PMID:23199346

Note: This product is for in vitro research use only and is not intended for use in humans or animals.