

Histone H3.1(Phospho-Ser10) Antibody

Catalog No: #11184

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

Description

Product Name	Histone H3.1(Phospho-Ser10) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	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 chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Histone H3.1 onlywhen phosphorylated at serine 10.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 10 (R-K-S(p)-T-G) derived from Human Histone H3.1.
Conjugates	Unconjugated
Target Name	Histone H3.1
Modification	Phospho
Other Names	H3/b, H3FB
Accession No.	Swiss-Prot: P68431NCBI Protein: NP_003521.2
SDS-PAGE MW	17
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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.

Application Details

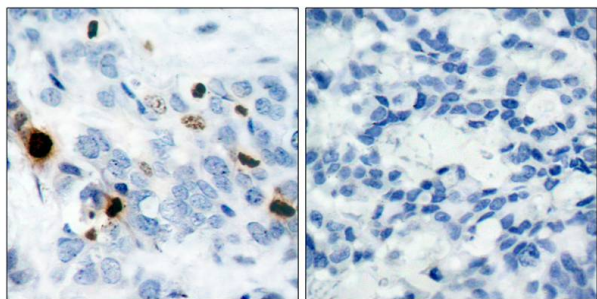
Predicted MW: 17kd

Western blotting: 1:500~1:1000

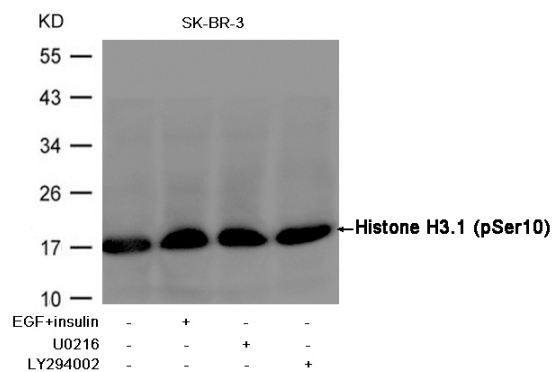
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

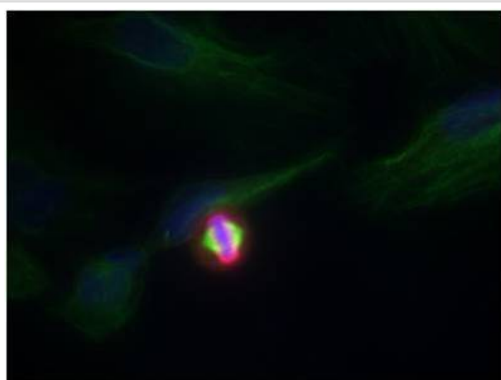
Images



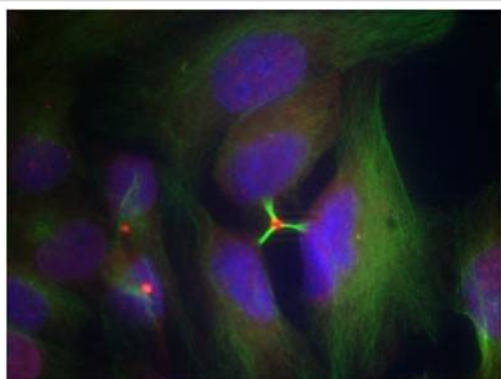
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Histone H3.1(Phospho-Ser10) Antibody #11184(left) or the same antibody preincubated with blocking peptide(right).



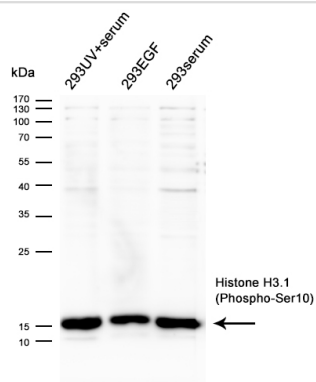
Western blot analysis of extracts from SK-BR-3 cells, treated with insulin and EGF, and pretreated with U0126 and LY294002 cells using Histone H3.1 (Phospho-Ser10) Antibody #11184.



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



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



Western blot analysis of extracts of various cell lines, 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. Dai J, et al. (2005) *Genes Dev* 19(4): 472-488.
Yih LH, et al. (2005) *Carcinogenesis* 26(1): 53-63.

Published Papers

Jiang et al., 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 et al., The protective effect of Alpha lipoic acid on Schwann cells exposed to constant or intermittent high glucose, *Biochemical Pharmacology*, 84 (2012) 961— C973(2012)

[PMID:22796564](#)

Yang W, Xia Y, Hawke D et al., PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis., *Cell*, 150(4):685-696(2012)

[PMID:22901803](#)

Zenglin Liao, Jiajia Dong, Wei Wu et al., Resolvin D1 attenuates inflammation in lipopolysaccharide-induced acute lung injury through a process involving the PPAR ϵ – θ /NF- ϵ – θ 'B pathway, *Respiratory Research* , 0.618055556(2012)

[PMID:23199346](#)

et al., PKM2 Phosphorylates Histone H3 and Promotes Gene Transcription and Tumorigenesis. In *Cell* on 2012 Aug 17 by Weiwei Yang, Yan Xia, et al..PMID: 22901803, , (2012)

[PMID:22901803](#)

et al., Avian Blastoderm Dormancy Arrests Cells in G 2 and Suppresses Apoptosis.In *FASEB J* on 2017 Aug by Mee Hyun Ko Young Sun Hwang,et al..PMID: 28404741, , (2017)

[PMID:28404741](#)

et al., Ubch10 overexpression increases carcinogenesis and blocks ALLN susceptibility in colorectal cancer.In *Sci Rep* on 2014 Nov 7 by Shang-Ze Li , Yang Song et al..PMID: 25376843 , , (2014)

[PMID:25376843](#)

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