

Datasheet for ABIN6254919

anti-Histone H3.1 antibody (pSer10)

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Overview

Quantity:	100 µL
Target:	Histone H3.1 (HIST1H3B)
Binding Specificity:	pSer10
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H3.1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Histone H3.1 around the phosphorylation site of Serine 10
Isotype:	IgG
Specificity:	Phospho-Histone H3.1 (Ser10) Antibody detects endogenous levels of Histone H3.1 only when phosphorylated at Serine 10
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	Histone H3.1 (HIST1H3B)
Alternative Name:	Histone H3.1 (HIST1H3B Products)
Background:	<p>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.</p> <p>Gene: HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J</p>
Molecular Weight:	17kDa
Gene ID:	8, 350, 835
UniProt:	P68431 , Q71DI3 , P84243

Application Details

Application Notes:	WB 1:500-1:2000 IHC 1:50-1:200
Restrictions:	For Research Use only

Handling

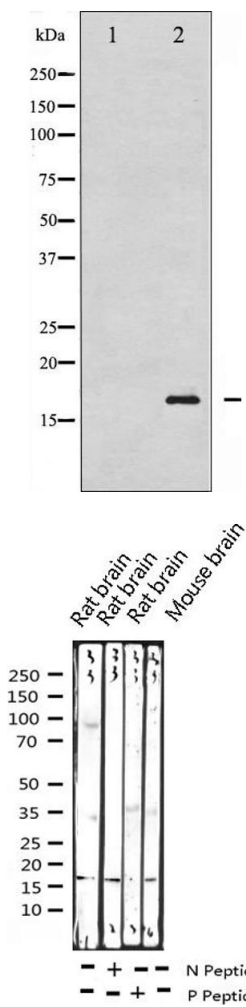
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C.Stable for 12 months from date of receipt
Expiry Date:	12 months

Publications

Product cited in: Xiaojun, Yan, Hong, Xianghong, Shifeng, Dingjie, Xuemin, Lijuan, Bonan, Zhongqiu, Ruimin, Brann, Fang: "Acetylated α -Tubulin Regulated by N-Acetyl-Seryl-Aspartyl-Lysyl-Proline(Ac-SDKP) Exerts the Anti-fibrotic Effect in Rat Lung Fibrosis Induced by Silica." in: **Scientific reports**, Vol. 6, pp. 32257, (2018) ([PubMed](#)).

Ye, Jing, Li, Wu, Li, Xu: "Icariin promotes proliferation and osteogenic differentiation of rat adipose-derived stem cells by activating the RhoA-TAZ signaling pathway." in: **Biomedicine & pharmacotherapy**, Vol. 88, pp. 384-394, (2017) ([PubMed](#)).

Images

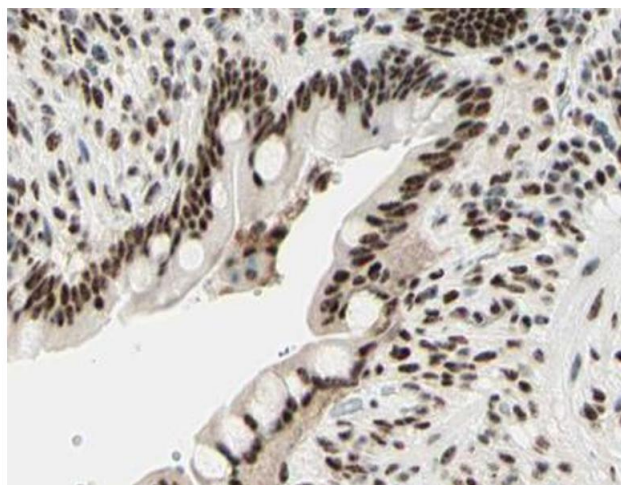


Western Blotting

Image 1. Western blot analysis of Histone H3.1 phosphorylation expression in COLO205 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

Western Blotting

Image 2. Western blot analysis of Phospho-Histone H3.1 (Ser10) expression in various lysates



Immunohistochemistry

Image 3. ABIN6267567 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6254919.