Histone H3.1(Ab-10) Antibody

Catalog No: #21137

Package Size: #21137-1 50ul #21137-2 100ul #21137-4 25ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Histone H3.1(Ab-10) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Histone H3.1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.8~12 (R-K-S-T-G) derived from Human Histone H3.1.
Target Name	Histone H3.1
Other Names	H3/a; H3/c; H3/d; H3/f; H3/h
Accession No.	Swiss-Prot: P68431NCBI Protein: NP_003521.2
Concentration	1.0mg/ml
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.

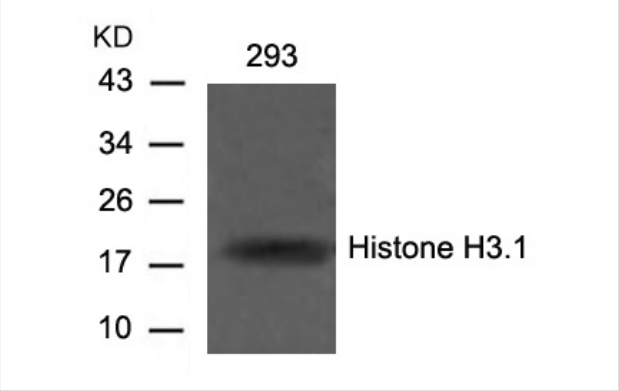
Application Details

Predicted MW: 17kd

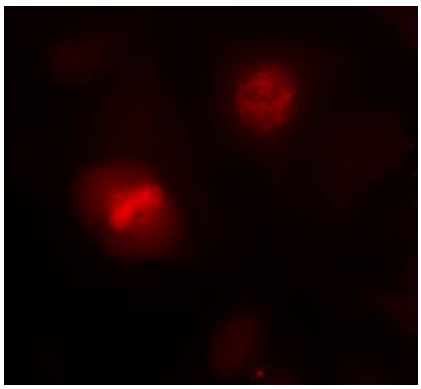
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from 293 cells using Histone H3.1(Ab-10) Antibody #21137.



Immunofluorescence staining of methanol-fixed Hela cells using Histone H3.1(Ab-10) Antibody #21137.

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.

Workman, J.L. and Kingston, R.E. (1998) Annu Rev Biochem 67, 545-79.
Hansen, J.C. et al. (1998) Biochemistry 37, 17637-41.
Strahl, B.D. and Allis, C.D. (2000) Nature 403, 41-5.
Cheung, P. et al. (2000) Cell 103, 263-71.

Published Papers

C.Y. MA, C.P. ZHANG, L.P. ZHONG el at., Decreased expression of profilin 2 in oral squamous cell carcinoma and its clinicopathological implications., ONCOLOGY REPORTS, 26: 813-823(2011)

PMID:21725608

Chao Yu, Ting Shan, Aiwen Feng el at., Triptolide ameliorates Crohn's colitis is associated with inhibition of TLRs/NF-B¦Γ B signaling pathway, Fitoterapia, 82(4):709-715(2011)

PMID:21376787

Chen S, Evans HG, Evans DR el at., FLASH Knockdown Sensitizes Cells To Fas-Mediated Apoptosis via Down-Regulation of the Anti-Apoptotic Proteins,MCL-1 and Cflip Short., PLoS ONE, 7(3): e32971(2012)

PMID:22427918

Guo-Dong Li, Xi Zhang, Rong Li el at., CHP2 activates the calcineurin/NFAT signaling pathway and enhances the oncogenic potential of HEK293 cells, JBC, 283 (47): 32660B¨C32668(2008)

PMID:18815128

Xiangyang Yao, Fenfen Zhu, Zhihui Zhao el at., Arctigenin Enhances Chemosensitivity of Cancer Cells to Cisplatin Through Inhibition of the STAT3 Signaling Pathway., Journal of Cellular Biochemistry, 112(10):2837B¨C2849(2011)

PMID:21608020

Yingyi Zhang, Yu Zhao, Hang Li el at., Cancer Cells Phosphorylation of Both Proteins in Breast on Interacting with c-Fos and Hepatitis B X-interacting Protein Depends The Nuclear Import of Oncoprotein., J. Biol. Chem., 288(26):18961-18974(2013)

PMID:23667255

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