

Histone H3.1 Antibody

Catalog No: #21137

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

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

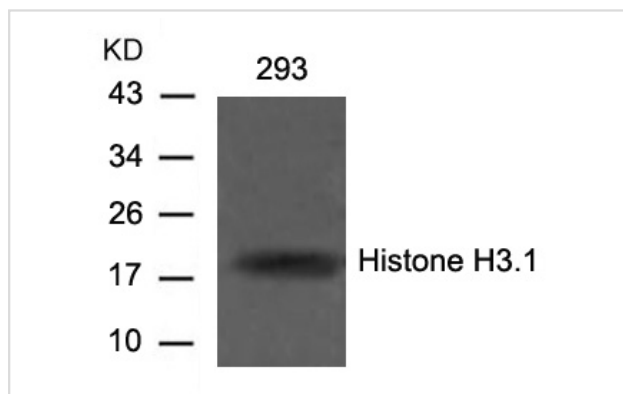
Description

Product Name	Histone H3.1 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;IHC;IF
Species Reactivity	Human;Mouse;Rat
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.
Conjugates	Unconjugated
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
Calculated MW	17kDa
SDS-PAGE MW	17kDa
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.

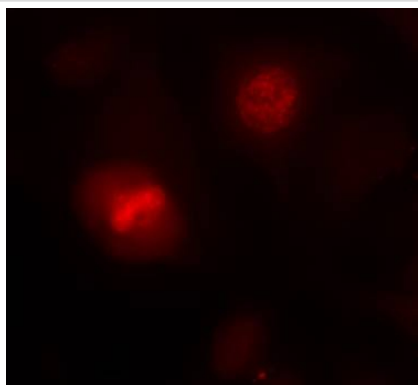
Application Details

WB 1:500-1:2000; IHC 1:50-1:200; IF 1:50-1:200;

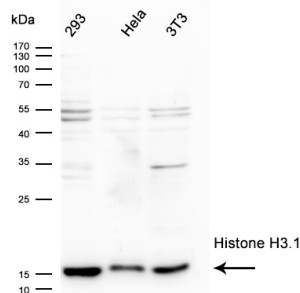
Images



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.



Western blot analysis of extracts of various cell lines, 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 et al., 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 et al., Triptolide ameliorates Crohn's colitis is associated with inhibition of TLRs/NF- κ B signaling pathway, *Fitoterapia*, 82(4):709-715(2011)

[PMID:21376787](#)

Chen S, Evans HG, Evans DR et al., 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 et al., CHP2 activates the calcineurin/NFAT signaling pathway and enhances the oncogenic potential of HEK293 cells, *JBC*, 283 (47): 32660-32668(2008)

[PMID:18815128](#)

Xiangyang Yao, Fenfen Zhu, Zhihui Zhao et al., Arctigenin Enhances Chemosensitivity of Cancer Cells to Cisplatin Through Inhibition of the STAT3 Signaling Pathway., *Journal of Cellular Biochemistry*, 112(10):2837-2849(2011)

[PMID:21608020](#)

Yingyi Zhang, Yu Zhao, Hang Li et al., 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](#)

et al., Retinoic acid-induced CYP51 nuclear translocation promotes meiosis prophase I process and is correlated to the expression of REC8 and STAG3 in mice.In Biol Open. On 2018 Nov 12 et al..PMID: 30420384, , (2018)

[PMID:30420384](#)

et al., DNA?PKcs PARylation regulates DNA?PK kinase activity In the DNA damage response. In Mol Med Rep on 2019 Oct by Han Y, Jin F,et al..PMID:31485633, , (2019)

[PMID:31485633](#)

et al., Short-chain fatty acids administration is protective in colitis-associated colorectal cancer development.In J Nutr Biochem. On 2018 Jul by Tian Y, Xu Q et al..PMID:29694938, , (2018)

[PMID:29694938](#)

et al., Triptolide ameliorates Crohn's colitis is associated with inhibition of TLRs/NF- κ B signaling pathway.In Fitoterapia on 2011 Jun by Yu C, Shan T,et al..PMID:21376787, , (2011)

[PMID:21376787](#)

et al., Magnesium deficiency promotes secretion of high-mobility group box 1 protein from lipopolysaccharide-activated macrophages in vitro.In J Surg Res on 2013 Apr by Liu Z, Chang Y,et al..PMID:22608546, , (2013)

[PMID:22608546](#)

et al., Aberrant Hypermethylation and Reduced Expression of disabled-2 Promote the Development of Lung Cancers.In Int J Oncol on 2013 Nov by Xue-Mei Xie, Zi-Yin Zhang,et al..PMID:24002585, , (2013)

[PMID:24002585](#)

et al., Resolvin D1 attenuates inflammation in lipopolysaccharide-induced acute lung injury through a process involving the PPAR γ /NF- κ B pathway.In Respir Res on 2012 Dec 2 by Liao Z, Dong J,et al..PMID:23199346, , (2012)

[PMID:23199346](#)

et al., Quercetin Attenuates Airway Inflammation and Mucus Production Induced by Cigarette Smoke in Rats.In Int Immunopharmacol on 2012 May by Ting Yang, Feng Luo,et al..PMID:22465384, , (2012)

[PMID:22465384](#)

et al., Arctigenin Enhances Chemosensitivity of Cancer Cells to Cisplatin Through Inhibition of the STAT3 Signaling Pathway.In J Cell Biochem on 2011 Oct by Xiangyang Yao, Fenfen Zhu, et al..PMID:21608020, , (2011)

[PMID:21608020](#)

et al., Protective effects of Salvianolic acid B on Schwann cells apoptosis induced by high glucose. In Neurochem Res on 2012 May by Lian-Qing Sun, Jue Zhao, et al..PMID:

22252725, , (2012)

[PMID:22252725](#)

et al., CHP2 activates the calcineurin/nuclear factor of activated T cells signaling pathway and enhances the oncogenic potential of HEK293 cells. In J Biol Chem on 2008 Nov 21 by Guo-Dong Li, Xi Zhang, et al..PMID:18815128, , (2008)

[PMID:18815128](#)

et al., Inhibition of the JAK-STAT3 signaling pathway by ganoderic acid A enhances chemosensitivity of HepG2 cells to cisplatin. In Planta Med on 2012 Nov by Xiangyang Yao, Guilan Li, et al..PMID: 22961117, , (2012)

[PMID:22961117](#)

et al., Sirt1 Attenuates Camptothecin-Induced Apoptosis Through caspase-3 Pathway in Porcine Preadipocytes. In Exp Cell Res on 2013 Mar 10 by Wei-jun Pang, Yan Xiong, et al..PMID: 23313858

, , (2013)

[PMID:23313858](#)

el at., FLASH knockdown sensitizes cells to Fas-mediated apoptosis via down-regulation of the anti-apoptotic proteins, MCL-1 and Cflip short . In PLoS One on 2012 by Song Chen, Hedeel Guy Evans, et al..PMID: 22427918

, , (2012)

[PMID:22427918](#)

el at., Decreased expression of profilin 2 in oral squamous cell carcinoma and its clinicopathological implications. In Oncol Rep on 2011 Oct by C Y Ma, C P Zhang, et al..PMID:21725608, , (2011)

[PMID:21725608](#)

el at., Effects of Yishen Pinggan Recipe on Renal Protection and NF- κ B Signaling Pathway in Spontaneously Hypertensive Rats.In Evid Based Complement Alternat Med on 2016 by Guodong Luo , Xiyong Zhu et al..PMID:27069492, , (2016)

[PMID:27069492](#)

el at., Chinese medicine Bu Xu Hua Yu recipe for the regulation of Treg/Th17 ratio imbalance in autoimmune hepatitis.In Evid Based Complement Alternat Med on 2015 by Lei Wang, Huihui Du et al..PMID: 25977698 , , (2015)

[PMID:25977698](#)

el at., NF1, Sp1 and HSF1 are synergistically involved in sulfide-induced sqr activation in echiuran worm Urechis unicinctus.In Aquat Toxicol on 2016 Jun by Xiaolong Liu , Zhenkui Qin et al..PMID: 27070384 , , (2016)

[PMID:27070384](#)

Florian Forster;Wolfgang Paster;Verena Supper;Philipp Schatzlmaier;Stefan Sunzenauer;Nicole Ostler;Anna Saliba;Paul Eckerstorfer;Nathalie Britzen-Laurent;Gerhard Schuetz;Johannes A. Schmid;Gerhard J. Zlabinger;Elisabeth Naschberger;Michael Stuerzl;Hannes Stockinger el at., Guanylate Binding Protein 1-Mediated Interaction of T Cell Antigen Receptor Signaling with the Cytoskeleton, , (2014)

[PMID:24337748](#)

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