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Datasheet for ABIN6971835 anti-Histone H3.1 antibody (AA 21-39)

2 Images



Overview

100 µg
Histone H3.1 (HIST1H3B)
AA 21-39
Human
Mouse
Monoclonal
This Histone H3.1 antibody is un-conjugated
Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Immunocytochemistry (ICC), ChIP DNA-Sequencing (ChIP-seq)
This antibody was raised against a peptide comprising amino acids 21-39 of human Histone H3.1. This region is 100% identical in human Histone H3.2.
1D4F2
lgG2b
Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest

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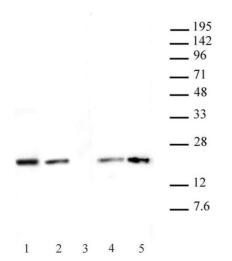
Purification:	Protein A Chromatography
	Human samples, but it is predicted that it will react with a wide range of sample types.
	Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with
	has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq,
	has a serine. Histone H3.1 / 3.2 antibody (mAb) (Clone 1D4F2) was raised in a Mouse host. It
	identical in amino acid sequences except at position 110 where H3.1 has a cysteine and H3.2
	DNA synthesis and occurs throughout the cell cycle. Human Histone H3.1 and H3.2 are
	nucleosomes is replication dependent, in contrast to Histone H3.3, which is independent of
	of Histone H3, Histone H3.1, 3.2 and 3.3. The incorporation of Histone H3.1 and H3.2 into
	modifications play a major role in regulating gene expression. There are three protein variants
	ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation, these
	Reported histone modifications include acetylation, methylation, phosphorylation,
	modifications of the histone proteins and the methylation of cytosine residues in the DNA.

Target Details

0	
Target:	Histone H3.1 (HIST1H3B)
Alternative Name:	Histone H3.1 / 3.2 (HIST1H3B Products)
Molecular Weight:	17 kDa
NCBI Accession:	NP_003522
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
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:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -

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Images

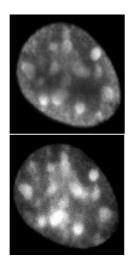


Western Blotting

Image 1. Histone H3.1 / 3.2 antibody (mAb) (Clone 1D4F2) tested by Western blot. HeLa nuclear extract (20 μ g) and recombinant human Histones (100 ng) were probed with Histone H3.1 / 3.2 antibody (mAb) at a 1 μ g/mL dilution in lanes 1, 2, & 3. Histone H3 (mAb) is also shown at a 0.25 μ g/mL dilution in lanes 4 & 5. Lane 1: Nuclear extract of untreated HeLa cells. Lane 2: 100 ng recombinant human Histone H3.1 protein. Lane 3: 100 ng recombinant human Histone H3.1 protein. Lane 4: 100 ng recombinant human Histone H3.1 protein. Lane 5: 100 ng recombinant human Histone H3.1 protein. Lane 5: 100 ng recombinant human Histone H3.3 protein.

Immunofluorescence

Image 2. Histone H3.1 / 3.2 antibody (mAb) (Clone 1D4F2) tested by immunofluorescence. Top: HeLa cell stained with H3.1 / 3.2 antibody (mAb). Bottom: Hoechst.



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