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Datasheet for ABIN5706800 anti-Histone H4 antibody (acLys8)

4 Images



Overview

Quantity:	50 µg
Target:	Histone H4
Binding Specificity:	acLys8
Reactivity:	Human, Mouse, C. elegans
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), Multiplex Assay (MA), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H4 K8ac Antibody
Immunogen:	Immunogen: Histone H4 [ac Lys8] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 8 of human Histone H4. Immunogen Type: Conjugated Peptide
Isotype:	lgG
Cross-Reactivity (Details):	This antibody reacts with human Histone H4.
Characteristics:	Synonyms: rabbit anti-Histone H4 Ac Lys8 antibody, H4K8ac, HIST2H4B, HIST1H4H, HIST1H4I, HIST1H4J, HIST1H4J, HIST1H4K, HIST1H4L, HIST2H4, HIST2H4A, HIST1H4A, HIST1H4B, HIST1H4C,

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Product Details	
	HIST1H4D, HIST1H4E, HIST1H4F, histone cluster 4, H4, histone 4, H4
Purification:	Anti-Histone H4 [ac Lys8] was affinity purified from monospecific antiserum by immunoaffinity
	chromatography.
Sterility:	Sterile filtered
Target Details	
Target:	Histone H4
Abstract:	Histone H4 Products
Background:	Background: Chromatin is the arrangement of DNA and proteins in which chromosomes are
	formed. Correspondingly, chromatin is formed from nucleosomes, which are comprised of a
	set of four histone proteins (H2A, H2B, H3, H4) wrapped with DNA. Chromatin is a very dynamic
	structure in which numerous post-translational modifications work together to activate or
	repress the availability of DNA to be copied, transcribed, or repaired. These marks decide which
	DNA will be open and commonly active (euchromatin) or tightly wound to prevent access and
	activation (heterochromatin). Common histone modifications include methylation of lysine and
	arginine, acetylation of lysine, phosphorylation of threonine and serine, and sumoylation,
	biotinylation, and ubiquitylation of lysine. In particular, acetylation of H4 Lys5 (H4 Lys5Ac) has
	been linked to transcriptional activation and DNA repair. Newly assembled histones are typically
	acetylated on H4 at lysine 5 and 12. The enzyme histone acetyltransferase 1 (HAT1) is the
	primary modulator, and these marks are necessary for complete chromatin assembly. Anti-
	Histone H4 are ideal for researchers interested in Chromatin Research, DNA replication
	Transcription Translation and Splicing, Epigenetics, Chromatin Modifiers, Histones and
	Modified Histones, DNA Repair, and HA Epitope Tags research.
Gene ID:	121504
NCBI Accession:	NP_001029249
UniProt:	P62805
Application Details	
Application Notes:	Immunohistochemistry Dilution: 1:1000-1:2000
	Application Note: Anti-Histone H4 [ac Lys8] antibody is tested for Western Blot, Dot Blot,
	Obramatin Immunantaginitation and Immunatly gragging (Immunagy to shamistry, Cragifia

Chromatin Immunoprecipitation, and Immunofluorescence/Immunocytochemistry. Specific

conditions for reactivity should be optimized by the end user. Expect a band approximately ~13

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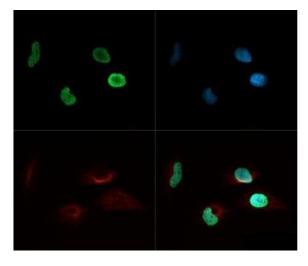
Application Details

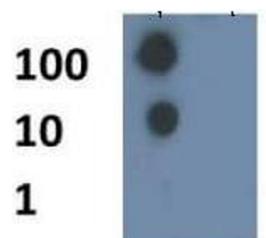
	kDa corresponding to Histone H4 protein by Western Blotting in HeLa histone prep lysate or the
	appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus
	Biologicals.
	ChIP Dilution: 2-5 µg/million cells
	Western Blot Dilution: 0.2 µg/mL
	IF Microscopy Dilution: 1:1000-1:2000
	Other: Dot Blot 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.85 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.01 % (w/v) 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:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months







Western Blotting

Image 1. Western Blot of Rabbit Anti-Histone H4 [ac Lys8] Antibody. Lane 1: HeLa histone prep. Lane 2: 3T3 histone prep. Lane 3: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H4 [ac Lys8] at 0.2 µg/mL for overnight at 4 °C. Secondary antibody: IRDye800[™] rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % BLOTTO overnight at 4 °C. Predicted/Observed size: ~11 kDa. Other band(s): None.

Fluorescence Microscopy

Image 2. Immunofluorescence of Rabbit Anti-Histone H4 [ac Lys8] Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H4 [ac Lys8] antibody at a 1:100 dilution for 1 h at RT. Secondary antibody: Dylight 488 secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H4 [ac Lys8] is nuclear. Staining: Histone H4 [ac Lys8] is expressed in green, nuclei and alpha-tubulin are counterstained with DAPI (blue) and Dylight 550 (red).

Dot Blot

Image 3. Dot Blot of Rabbit Histone H4 [ac Lys8] Antibody. Lane 1: K8 Ac. Lane 2: K8 unmodified. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H4 [ac Lys8] antibody at 1:1000 for 45 min at 4 °C. Secondary antibody: Dylight[™]488 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5 % BLOTTO overnight at 4 °C.

Please check the product details page for more images. Overall 4 images are available for ABIN5706800.

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