Datasheet for ABIN5706778

anti-Histone 3 antibody (H3K79me)

4 Images

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Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K79me
Reactivity:	Human, Mouse, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), Multiplex Assay (MA), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H3 K79me1 Antibody
Immunogen:	Immunogen: Histone H3 K79-Me1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide surrounding the Lys79 site of human Histone H3. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with human Histone H3.
Characteristics:	Synonyms: rabbit anti-Histone H3 monomethyl Lys79 antibody, H3K79me1, Anti-H3 K79-Me1, Histone H3 antibodies
Purification:	Anti-Histone H3 [Monomethyl Lys79] was affinity purified from monospecific antiserum by

Product Details

	immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 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 Lys79 methylations are involved in transcriptional activation, and has been found to be inversely correlated with H2B ubiquitination. Anti-Histone H3 K79-Me1 antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.
Gene ID:	3020
NCBI Accession:	NP_002098
UniProt:	P84243

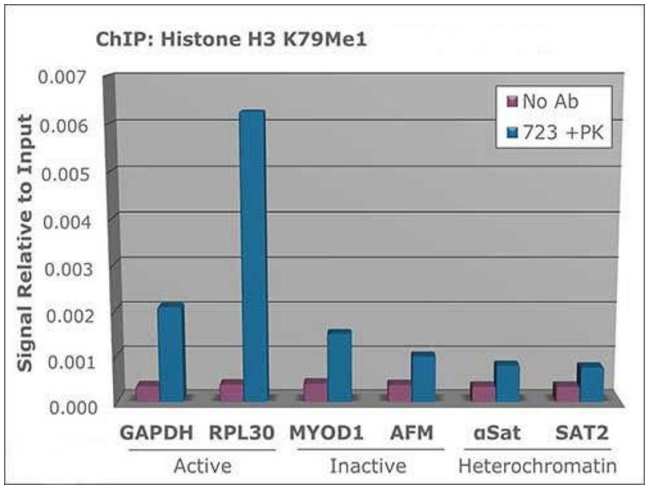
Application Details

Application Notes:	Application Note: Anti-Histone H3 K79-Me1 antibody is tested in Western Blot, ChIP, Immunofluorescence, and Dot Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15 kDa corresponding to the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals. ChIP Dilution: 2 µg Western Blot Dilution: 0.5 µg/mL IF Microscopy Dilution: 1:50 - 1:100
Restrictions:	For Research Use only

Handling

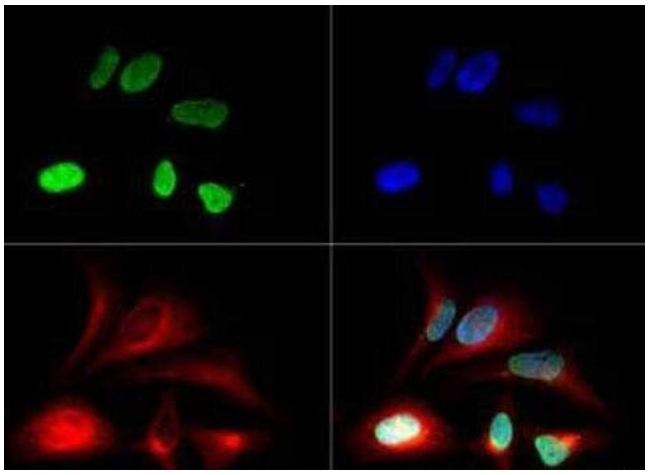
Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which 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

Images



Chromatin Immunoprecipitation

Image 1. Chromatin Immunoprecipitation of Histone H3 [monomethyl Lys79] Antibody: Chromatin from one million formaldehyde cross-linked Hela cells was used with 2 µg of H3 K79Me1 and 20 µL of magnetic IgG beads per immunoprecipitation. A no antibody (No Ab) control was also used. Immunoprecipitated DNA was quantified using quantitative real-time PCR and SYBR green dye, then normalized to the non-precipitated input chromatin, which is equal to one.



Fluorescence Microscopy

Image 2. Immunofluorescence of Histone H3 [monomethyl Lys79-Me1]: Histone H3 K79me1 antibody was tested in Hela cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

Western Blotting

Image 3. Western Blot of Histone H3 [monomethyl Lys79] (RABBIT) Antibody. Western Blot analysis against untreated cell extracts. Lane 1: HeLa cell lysates. Lane 2: NIH/3T3 cell lysates. Lane 3: Cos 7 cell lysates. Load: 35 µg per lane. Primary antibody: Histone H3 K79-Me1 antibody at 0.5 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: 15 kDa for Histone H3 K79-Me1.

Please check the product details page for more images. Overall 4 images are available for ABIN5706778.