

Datasheet for ABIN5706780

anti-Histone 3 antibody (H3K9ac, pSer10)[Go to Product page](#)**3** Images

Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K9ac, pSer10
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Dot Blot (DB), Multiplex Assay (MA), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H3 K9-Ac/phospho S10 (RABBIT) Antibody
Immunogen:	Immunogen: Anti-Histone H3 [ac Lys9/phospho Ser10] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide with a acetylation surrounding Lysine 9 and a phosphorylation surrounding serine 10 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 Ac Lys9 pS10 antibody, Histone H3 antibodies, H3K9ac/pS10
Purification:	Anti-Histone H3 K9Ac/pS10 was affinity purified from monospecific antiserum by

Product Details

immunoaffinity chromatography.

Sterility: Sterile filtered

Target Details

Target: Histone 3 (H3)

Alternative Name: Histone H3

Background: Histones of the nucleosome build chromatin and undergo various post-translational modifications proven to regulate chromatin condensation and DNA accessibility. Phosphorylations on Serine 10 has been shown to facilitate chromatin condensation by its interaction with Aurora-B kinase during mitosis and is alternatively active in cell division. Serine modification is associated with IKK-alpha and Snf1 enzymes in transcriptional activation, and is modified by MSK1 and 2 which are enzymes that react to growth factors and cellular stress in immediate-early gene activation. Lysine 9 acetylations are connected with histone deposition and transcriptional activation. Anti-Histone H3 [ac Lys9/phospho Ser10] antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Gene ID: 126961

NCBI Accession: [NP_001005464](#)

UniProt: [Q71DI3](#)

Application Details

Application Notes: Application Note: Anti-Histone H3 K9-Ac/pS10 antibody is tested for Western Blot, Dot Blot, and Immunocytochemistry/Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15 kDa corresponding to Histone H3 protein by Western Blotting in NIH-3T3 histone prep lysate or the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

Western Blot Dilution: 1.0 µg/mL

IF Microscopy Dilution: 1:10

Restrictions: For Research Use only

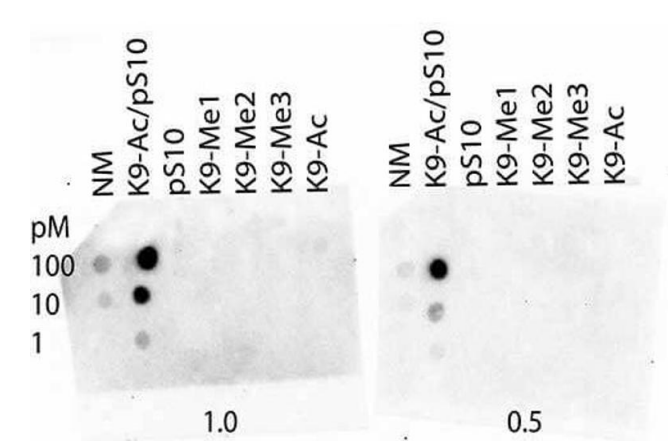
Handling

Format: Liquid

Handling

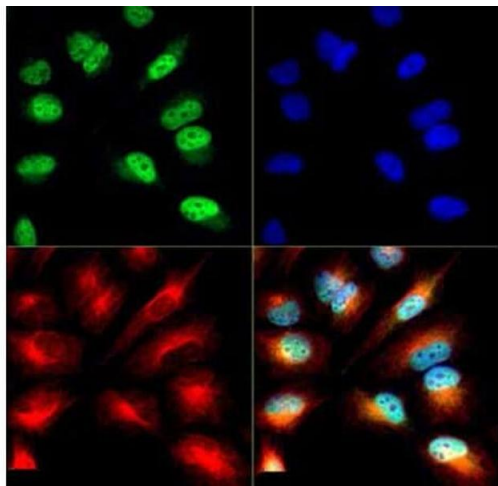
Concentration:	0.25 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by 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



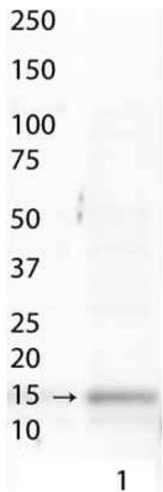
Dot Blot

Image 1. Dot Blot of Rabbit Histone H3 [ac Lys9/phosphor Ser10] Antibody. Lane 1: K9-Ac/pS10 unmodified. Lane 2: pS10. Lane 3: K9-Me1. Lane 4: K9-Me2. Lane 5: K9-Me3. Lane 6: K9-Ac peptides. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 K9-Ac/pS10 antibody at 1:1000 for 45 min at 4 °C. Secondary antibody: RABBIT IgG (H&L) Peroxidase Conjugated at 1:40,000 for 30 min at RT. Block: 5 % BLOTTO 30 minutes at RT.



Fluorescence Microscopy

Image 2. Immunofluorescence of Histone H3 [ac Lys9/phospho Ser10]: Histone H3 K9-Ac/pS10 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 [ac Lys9/phospho Ser10] (RABBIT) Antibody. Western Blot analysis against untreated cell extracts. Lane 1: NIH/3T3 cell lysates. Load: 35 µg per lane. Primary antibody: Histone H3 [ac Lys9/phospho Ser10] antibody at 1:400 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 [ac Lys9/phospho Ser10]. Other band(s): none.