

Datasheet for 600-401-P08**Histone H3 K9-Ac/phospho S10 (RABBIT) Antibody****Overview**

Description:	Anti-Histone H3 [ac Lys9/phospho Ser10] (RABBIT) Antibody - 600-401-P08
Item No.:	600-401-P08
Size:	50 µg
Applications:	Dot Blot, IF, Multiplex, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-Histone H3 Ac Lys9 pS10 antibody, Histone H3 antibodies, H3K9ac/pS10
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HIST2H3C
Reactivity:	Human, Mouse
PTM Specificity:	Dual Modification

Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	Anti-Histone H3 K9Ac/pS10 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3. Cross-reactivity with other sources has not been determined.
Relevant Links:	• UniProtKB - Q71DI3 • NCBI - NP_001005464 • GeneID - 126961

Application Details

Tested Applications:	Dot Blot, IF, Multiplex, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:10
WB:	1.0 µg/mL
Other:	Dot Blot: 1:1000

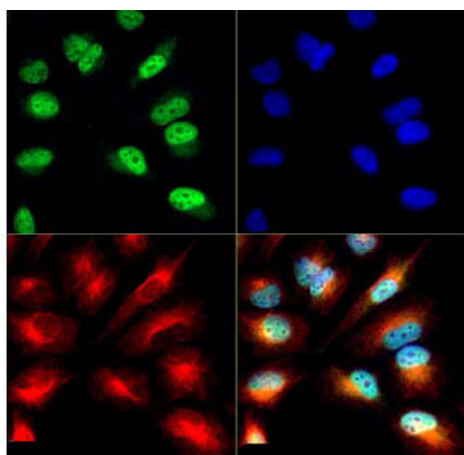
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.25 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

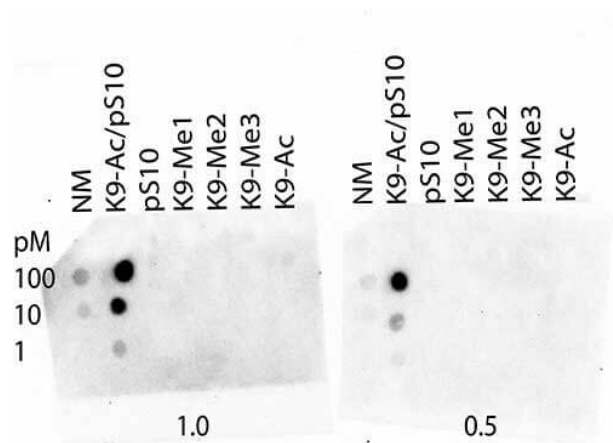
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



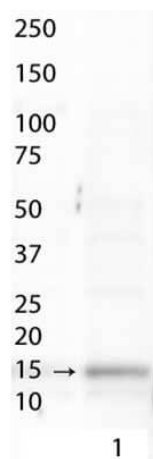
Immunofluorescence Microscopy

Immunofluorescence of Histone H3 [ac Lys9/phosphor 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).



Dot Blot

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.

**Western Blot**

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.