

Datasheet for 600-401-I63**Histone H3 phospho T6 Antibody****Overview**

Description:	Anti-Histone H3 [p Thr6] (RABBIT) Antibody - 600-401-I63
Item No.:	600-401-I63
Size:	50 µg
Applications:	Dot Blot, IF, WB
Reactivity:	Human, C. elegans
Host Species:	Rabbit

Product Details

Background:	Phosphorylation as a post-translational modification on histone H3 modulates the ability of proteins to recognize and bind to the H3 tail. When additional modifications to H3 are present, in addition to the native T6 phosphorylation, there is an amplified effect. Several authors suggest that the complexity of these combined PTMs on histone tails should be described as a convoluted language, rather than as a strict code. Since the H3T6 phosphorylation seems to be constitutively present, its de-phosphorylation could be highly significant and affect transcription, repair and replication. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.
Synonyms:	rabbit anti-Histone H3 pT6 antibody, H3.3AH3F3H3F3B, H3.3B, H3 histone, family 3A, histone H3.3, MGC87783, MGC87782, H3pT6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HIST2H3C
Reactivity:	Human, C. elegans
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Histone H3 [p Thr6] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide surrounding Threonine 6 of human Histone H3.2.
Purity/Specificity:	Anti-Histone H3 [p Thr6] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3.2. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology. Cross-reactivity with Histone H3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q71DI3 • NCBI - NP_001005464 • GeneID - 126961

Application Details

Tested Applications:	Dot Blot, IF, WB
Application Note:	Anti-Histone H3 [p Thr6] antibody is tested for Western Blot, Immunofluorescence, and Dot Blot. This antibody is useful in Chromatin Immunoprecipitation and Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to Histone H3 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	2-5µg/million cells
IF:	1:200
IHC:	1:200
WB:	1:500

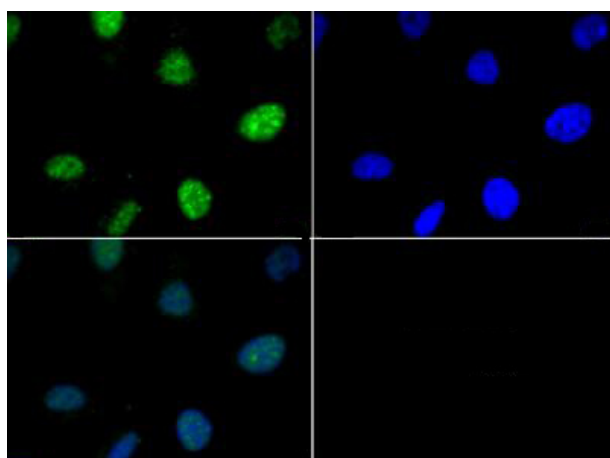
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.67 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:	30% Glycerol

Shipping & Handling

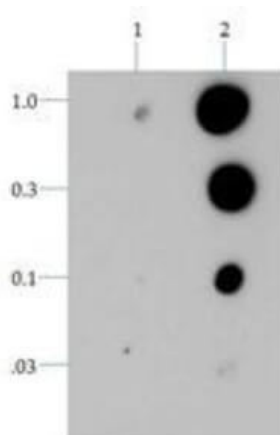
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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 Rabbit Anti-Histone H3 [p Thr6] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [p Thr6] antibody at a 1:50 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [p Thr6] is nuclear and chromosomal. Staining: Histone H3 [p Thr6] is expressed in green and the nuclei are counterstained with DAPI (blue).



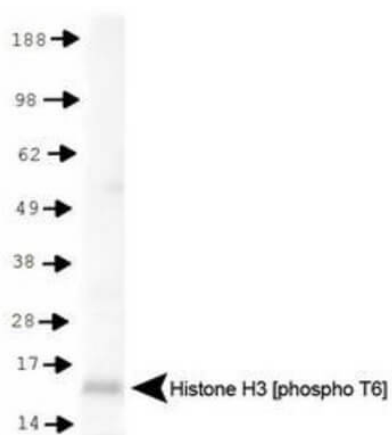
Dot Blot

Dot Blot of Rabbit Histone H3 [p Thr6] Antibody. Lane 1: T6. Lane 2: pT6. Load: 1, 0.3, 0.1, 0.03 picomoles of peptide. Primary antibody: Histone H3 [p Thr6] 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.



Western Blot

Western Blot of Rabbit Anti-Histone H3 [p Thr6] Antibody.
 Lane 1: C. elegans embryo lysate. Load: 30 µg per lane.
 Primary antibody: Histone H3 [p Thr6] at 1:500 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. Other
 band(s): None.



Western Blot

Western Blot of Rabbit Anti-Histone H3 [p Thr6] Antibody.
 Lane 1: HeLa histone preps. Load: 30 µg per lane. Primary
 antibody: Histone H3 [p Thr6] at 1:500 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. 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.