Datasheet for ABIN5706877

anti-Histone 3 antibody (pSer10)

4 Images

Go to Product page

Overview

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

Product Details

Purpose:	Histone H3 phospho S10 Antibody
Immunogen:	Immunogen: Histone H3 [p Ser10] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phosphorylated peptide surrounding Serine 10 of human Histone H3.2. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with human Histone H3.
Characteristics:	Synonyms: rabbit anti-Histone H3 pS10 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3pS10
Purification:	Anti-Histone H3 [p Ser10] was affinity purified from monospecific antiserum by immunoaffinity

Product Details

	chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)
Background:	Background: H3 pS10 is typically associated with activation of transcription of genes associated with histone H3. This modification is linked to the initiation of chromatin condensation in G(2). During mitosis, H3pS10 is required for proper chromosome segregation. Formation of the H3pS10 modification seems to be regulated in part by p53, which interacts with histone modifying complexes. In development of the retina, the presence of H3pS10 is linked to the abundance of eye defects. This developmental effect of H3pS10 seems to be related to Psf2 and GPR84. The human Timeless protein (Tim) regulates the global H3pS10 phosphorylation in G2/M phase. VASP concentrations peak during mitosis in HeLa cells at the same time as H3pS10, indicating that co-responsibility for transition of G2/M phases. AURKB promotes the phosphorylation of histone H3 at pS10. Anti-Histone H3 are 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:	Immunohistochemistry Dilution: 1:2000 Application Note: Anti-Histone H3 [p Ser10] antibody is tested by Western Blot, Immunofluorescence, and Dot Blot. This antibody is useful for Immunocytochemistry and Chromatin Immunoprecipitation. 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. Western Blot Dilution: 1:500 IF Microscopy Dilution: 1:2000 Other: Dot Blot 1:1000

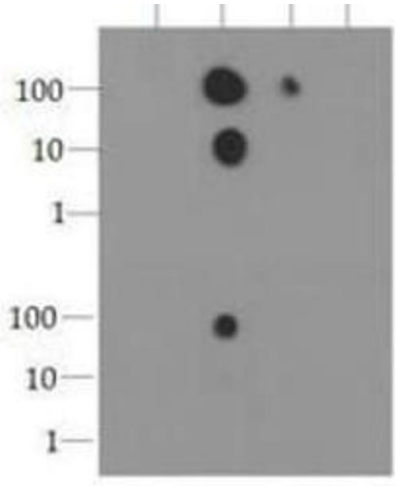
Application Details

Restrictions:	For Research Use only

Handling

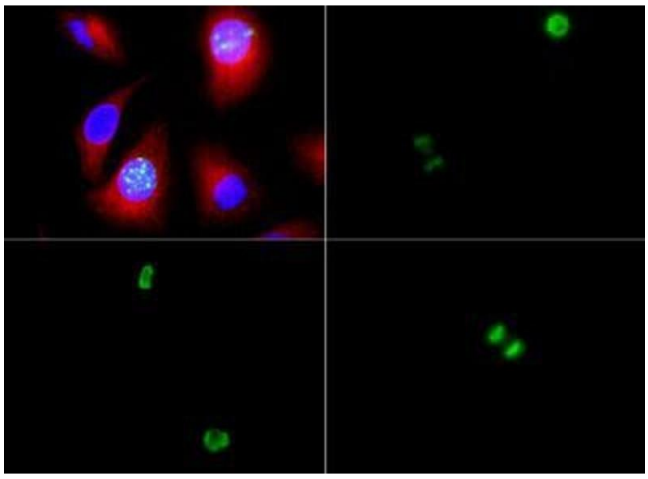
Format:	Liquid
Concentration:	0.44 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which 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



Dot Blot

Image 1. Dot Blot of Rabbit Histone H3 [p Ser10] Antibody. Lane 1: unmodified. Lane 2: pS10. Lane 3: pS10pT11. Lane 4: pT11. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 [p Ser10] antibody at 0.005 µg/mL (bottom blot) and 0.025 µg/mL (top blot) 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.



Fluorescence Microscopy

Image 2. Immunofluorescence of Rabbit Anti-Histone H3 [p Ser10] Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [p Ser10] antibody at a 1:200 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [p Ser10] is nuclear and chromosomal. Staining: Histone H3 [p Ser10] is expressed in green, nuclei and actin are counterstained with Dapi (blue) and Phalloidin (red).

Western Blotting

Image 3. Western Blot of Rabbit Anti-Histone H3 [p Ser10] Antibody. Lane 1: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H3 [p Ser10] 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.

Please check the product details page for more images. Overall 4 images are available for ABIN5706877.