Datasheet for ABIN5706788

anti-Histone 3 antibody (H3K9me3, pThr6)

5 Images

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Overview

Quantity:	50 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K9me3, pThr6
Reactivity:	Human, C. elegans
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), Fluorescence Microscopy (FM)

Product Details

Purpose:	Histone H3 K9me3/phospho T6 Antibody
Immunogen:	Immunogen: Histone H3 [Trimethyl Lys9, p Thr6] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic trimethylated/phosphorylated peptide surrounding Lysine 9/Threonine 6 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 trimethyl Lys9 pT6 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9me3/pT6

Product Details

Purification:	Anti-Histone H3 [Trimethyl Lys9, p Thr6] was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)
Background:	Background: H3K9 methylations are a conserved hallmark of heterochromatin binding domains. The trimethyl K9 version of histone H3, when coupled with a T6 phosphorylation, is related to the Oct4 and Nanog proteins in embryoid bodies. This association seems to indicate a role for this modified histone in cellular differentiation in development. The formation of this modification seems to be a result of a complicated multiple silencing process for downstream genes, which is RNAi independent. 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

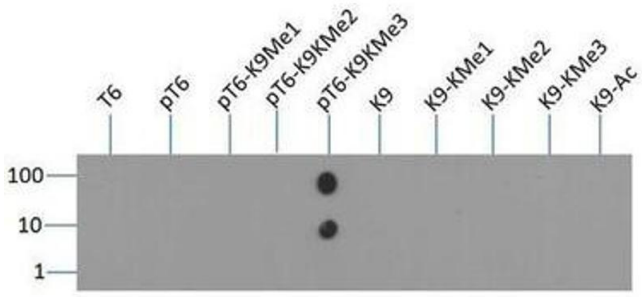
Application Details

Application Notes:	Immunohistochemistry Dilution: 1:200 Application Note: Anti-Histone H3 [Trimethyl Lys9, p Thr6] antibody is tested for Western Blot, Immunocytochemistry, Immunofluorescence, Chromatin Immunoprecipitation, and Dot Blot. 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. ChIP Dilution: 2-5 µg/million cells Western Blot Dilution: 1:500 IF Microscopy Dilution: 1:200 Other: Dot Blot 1:1000
Restrictions:	For Research Use only

Handling

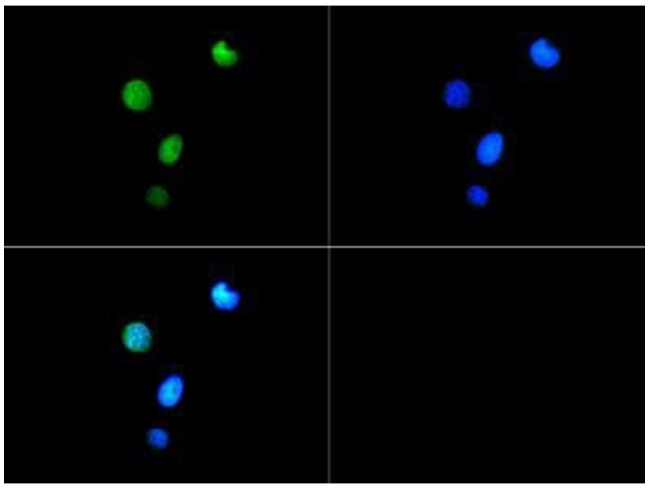
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which 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



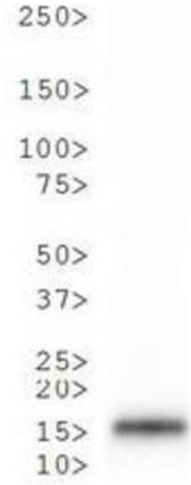
Dot Blot

Image 1. Dot Blot of Rabbit Histone H3 [Trimethyl Lys9, p Thr6] Antibody. Lane 1: T6. Lane 2: pT6. Lane 3: pT6 K9KMe1. Lane 4: pT6 K9KMe2. Lane 5: pT6 K9KMe3. Lane 6: K9. Lane 7: K9KMe1. Lane 8: K9KMe2. Lane 9: K9KMe3. Lane 10: K9ac. Load: 1, 10, and 100 picomoles of peptide. Primary antibody: Histone H3 [Trimethyl Lys9, 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.



Fluorescence Microscopy

Image 2. Immunofluorescence of Rabbit Anti-Histone H3 [Trimethyl Lys9, p Thr6] Antibody. Tissue: HeLa cells. Fixation: 0.5 % PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Trimethyl Lys9, 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 [Trimethyl Lys9, p Thr6] is nuclear and chromosomal. Staining: Histone H3 [Trimethyl Lys9, p Thr6] is expressed in green and the nuclei are counterstained with DAPI (blue).



Western Blotting

Image 3. Western Blot of Rabbit Anti-Histone H3 [Trimethyl Lys9, p Thr6] Antibody. Lane 1: C. elegans embryo lysate. Load: 30 µg per lane. Primary antibody: Histone H3 [Trimethyl Lys9, 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.

Please check the product details page for more images. Overall 5 images are available for ABIN5706788.