

Datasheet for ABIN7127311

Recombinant anti-Histone H3.3 antibody (pThr3)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µL
Target:	Histone H3.3 (H3F3A)
Binding Specificity:	pThr3
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Histone H3.3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide
Clone:	28H4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Affinity-chromatography

Target Details

Target:	Histone H3.3 (H3F3A)
Alternative Name:	H3F3A (H3F3A Products)

Target Details

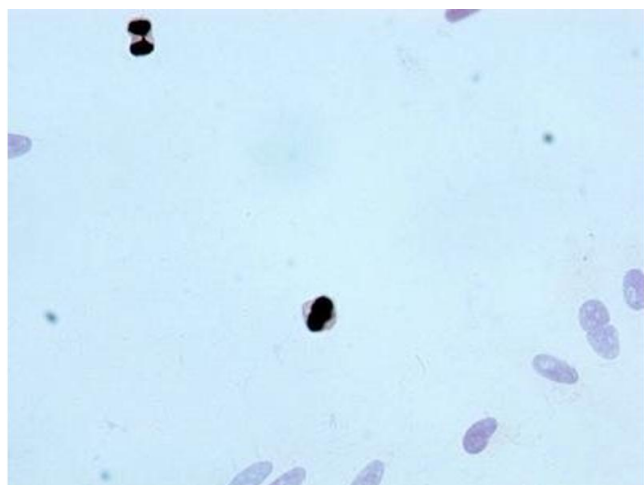
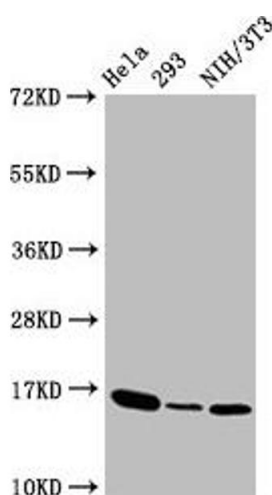
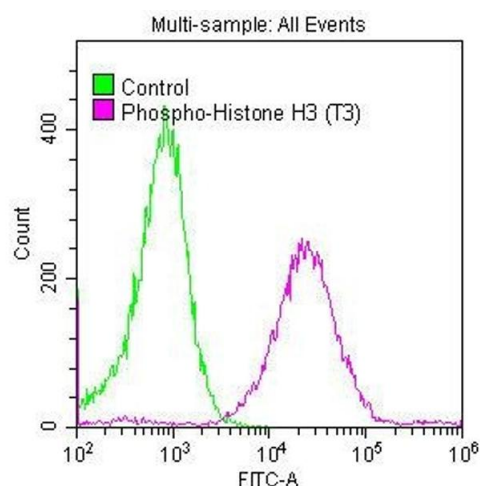
Background:	Background: Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Aliases: Histone H3.3, H3F3A, H3.3A, H3F3, PP781, AND, H3F3B, H3.3B
UniProt:	P84243

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, ICC:1:50-1:500,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Flow Cytometry

Image 1. Overlay histogram showing HeLa cells stained with ABIN7127311 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then permeabilized with 0.3 % Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10 % normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4 °C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4 °C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Western Blotting

Image 2. Western Blot Positive WB detected in: HeLa whole cell lysate, 293 whole cell lysate, NIH/3T3 whole cell lysate. All lanes: Phospho-Histone H3 (T3) antibody at 1.41 µg/ml. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 16 KDa. Observed band size: 16 KDa.

Immunocytochemistry

Image 3. Immunocytochemistry analysis of ABIN7127311 diluted at 1:100 and staining in HeLa cells performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.