

Datasheet for ABIN7139281

**anti-Histone H3.3 antibody (2meLys79)**[Go to Product page](#)**2** Images

## Overview

Quantity:	100 µL
Target:	Histone H3.3 (H3F3A)
Binding Specificity:	2meLys79
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H3.3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

## Product Details

Immunogen:	Peptide sequence around site of Di-methyl-Lys (79) derived from Human Histone H3.3
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

## Target Details

Target:	Histone H3.3 (H3F3A)
Alternative Name:	H3F3A ( <a href="#">H3F3A Products</a> )
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

## Target Details

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: H3 histone family 3A antibody, H3 histone family 3B antibody, H3 histone, family 3B (H3.3B) antibody, H3.3 antibody, H3.3A antibody, H3.3B antibody, H33\_HUMAN antibody, H3F3 antibody, H3F3A antibody, H3f3b antibody, Histone H3.3 antibody, Histone H3.3Q antibody, Histone H3.A antibody, Histone H3.B antibody, MGC87782 antibody, MGC87783 antibody

UniProt: [P84243](#)

## Application Details

Application Notes: Recommended dilution: WB:1:500-1:2000,

Restrictions: For Research Use only

## Handling

Format: Liquid

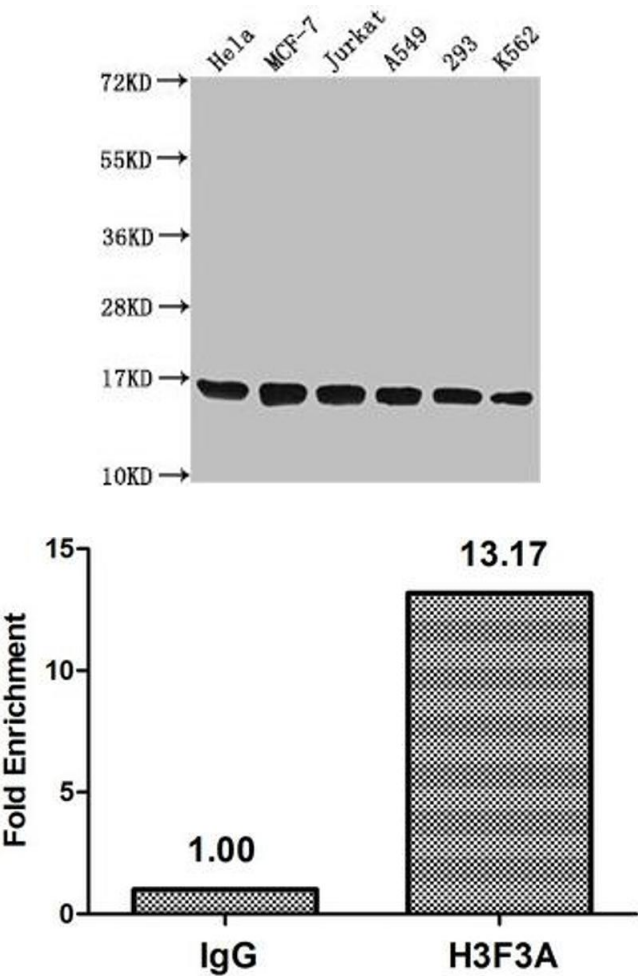
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: 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.



Western Blotting

**Image 1.** Western Blot Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, Jurkat whole cell lysate, A549 whole cell lysate, 293 whole cell lysate, K562 whole cell lysate All lanes: H3F3A antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/40000 dilution Predicted band size: 16 kDa Observed band size: 16 kDa

Immunohistochemistry

**Image 2.** Chromatin Immunoprecipitation Hela ( $4 \times 10^6$ ) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5  $\mu$ g anti-H3F3A (ABIN7139281) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.