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Datasheet for ABIN6939594
anti-Histone H1 antibody

8 Images

Overview

Quantity:	100 µg
Target:	Histone H1
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Histone H1 antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (IHC), Staining Methods (StM), Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Product Details

Immunogen:	Nuclei of human leukemia biopsy cells
Clone:	AE-4
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Histone H1
Alternative Name:	Histone H1 (Pan Nuclear Marker) (Histone H1 Products)
Background:	Eukaryotic histones are basic and water-soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fiber. Two molecules of each of the four core histones (H2A,

Target Details

H2B, H3, and H4) form the octamer, formed of two H2A-H2B dimers and two H3-H4 dimers, forming two nearly symmetrical halves by tertiary structure. Over 80 % of nucleosomes contain the linker Histone H1, derived from an intronless gene that interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Such modifications include methylation, citrullination, acetylation, phosphorylation, sumoylation, ubiquitination and ADP-ribosylation.

Molecular Weight: ~30kDa

Gene ID: 3005

Application Details

Application Notes: Positive Control: HeLa, A-431, LNCap or Jurkat cells. Breast carcinoma.
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

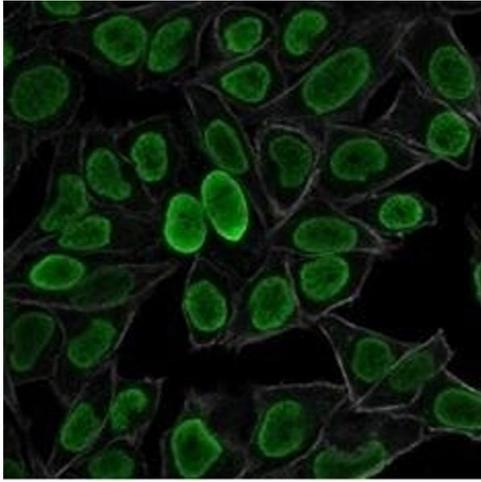
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

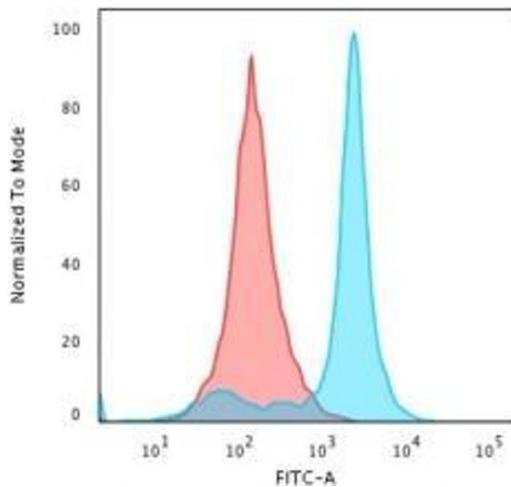
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



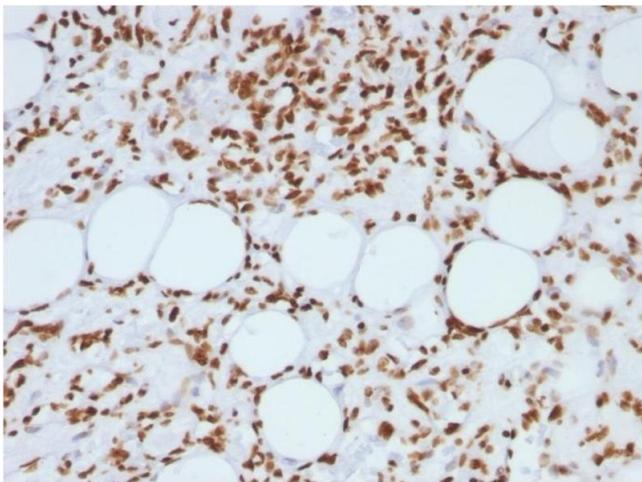
Immunofluorescence

Image 1. Immunofluorescence staining of PFA-fixed HeLa cells using Histone H1 Mouse Monoclonal Antibody (AE-4) followed by goat anti-mouse IgG-CF488 (green). Membrane stained by Phalloidin



Flow Cytometry

Image 2. Flow Cytometric Analysis of HeLa cells. Histone H1 Mouse Monoclonal Antibody (AE-4) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Histone H1 Mouse Monoclonal Antibody (AE-4)

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN6939594.