

Datasheet for ABIN1118467
anti-Histone 3 antibody (C-Term)



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3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Histone 3 (H3)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Histone H3 Antibody
Immunogen:	Immunogen: Anti-Histone-3 was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to the c-terminus region of human histone-3. Immunogen Type: Conjugated Peptide
Cross-Reactivity (Details):	Anti-Histone H3 is directed against the human histone 3 protein.
Characteristics:	Synonyms: rabbit anti-Histone H3 antibody, Histone H3.1, H3F, H3FA, H3FB, H3FL, H3FL, H3FC, H3FD, H3FI, H3FH, H3FK, H3FF, H3FJ, Histone 3 Antibody
Purification:	The product was prepared from monospecific antiserum by delipidation and defibrination.
Sterility:	Sterile filtered

Target Details

Target:	Histone 3 (H3)
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Target Details

Alternative Name: [Histone H3 \(H3 Products\)](#)

Background: Background: Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Histone proteins are highly post-translationally modified with Histone H3 being the most extensively modified of the five histones. The N-terminal tail of histone H3 protrudes from the globular nucleosome core and can undergo several different types of post-translational modification that influence cellular processes. 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. Histone H3 Antibody is ideal for investigators involved in Cell Signaling, Epigenetics, Nuclear Signaling research and Signal Transduction research.

Gene ID: 8350

NCBI Accession: [NP_003520](#)

UniProt: [P68431](#)

Application Details

Application Notes: Immunohistochemistry Dilution: 1:100
Application Note: Histone H3 antibody has been tested for use in ELISA, IHC, and western blot. For western blots expect a band of approximately 15.4 kDa in size corresponding to the Histone 3 protein. Specific conditions for reactivity should be optimized by the end user.
Western Blot Dilution: 1:2000
ELISA Dilution: 1:10000
Other: User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 83 mg/ml

Buffer: Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

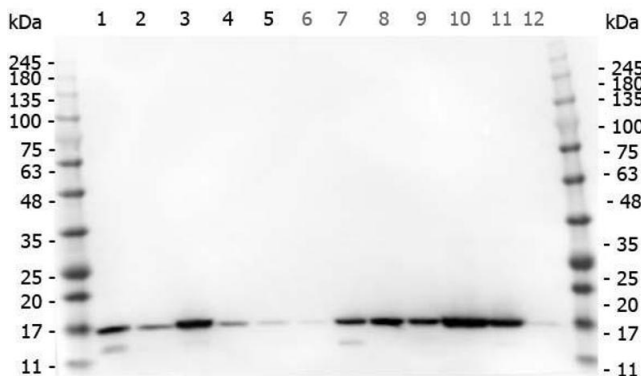
Handling

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 H3 Antibody 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

Publications

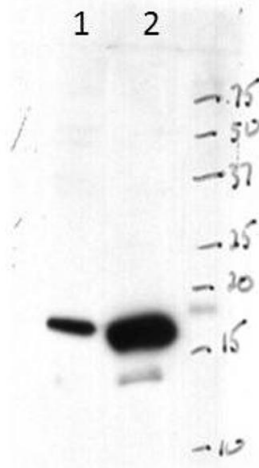
Product cited in:	Rivera-Casas, Gonzalez-Romero, Garduño, Cheema, Ausio, Eirin-Lopez: "Molecular and Biochemical Methods Useful for the Epigenetic Characterization of Chromatin-Associated Proteins in Bivalve Molluscs." in: Frontiers in physiology , Vol. 8, pp. 490, (2017) (PubMed).
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Images



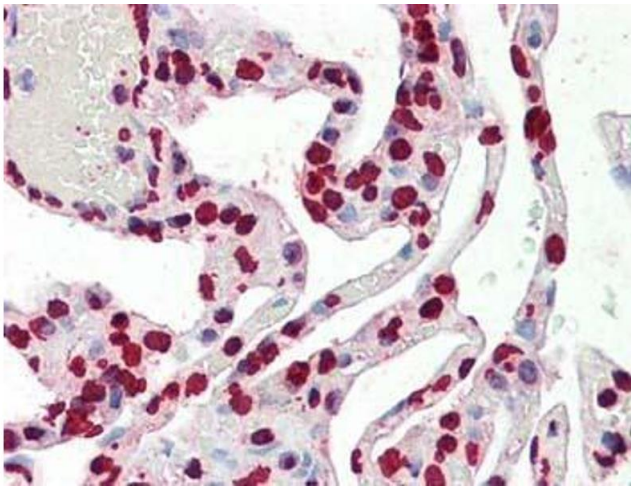
Western Blotting

Image 1. Western Blot of Rabbit anti-Histone H3 antibody. Marker: Opal Pre-stained ladder . Lane 1: HEK293 lysate . Lane 2: HeLa Lysate . Lane 3: MCF-7 Lysate . Lane 4: Jurkat Lysate . Lane 5: A431 Lysate . Lane 6: A549 Lysate . Lane 7: LNCap Lysate . Lane 8: MOLT-4 Lysate . Lane 9: Ramos Lysate . Lane 10: Raji Lysate . Lane 11: A-172 Lysate . Lane 12: NIH/3T3 Lysate . Load: 35 µg per lane. Primary antibody: Histone H3 antibody at 1:500 overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS for 30 min at RT. Predicted/Observed size: 15 kDa for Histone H3.



Western Blotting

Image 2. Western Blot of Rabbit anti-Histone 3 antibody. Lane 1: Raji lysate. Lane 2: HeLa lysate. Load: 15ug, 25ug respectively. Primary antibody: Histone 3 antibody at 1:2000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 15.4 kDa, ~15.4 kDa for Histone 3. Other band(s): none.



Immunohistochemistry

Image 3. Immunohistochemistry of Histone H3 antibody. Tissue: Lung Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: Histone H3 antibody 1:100. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Image provided courtesy of Andrew Elston, LifeSpan BioSciences, Inc.