

PRODUCT INFORMATION



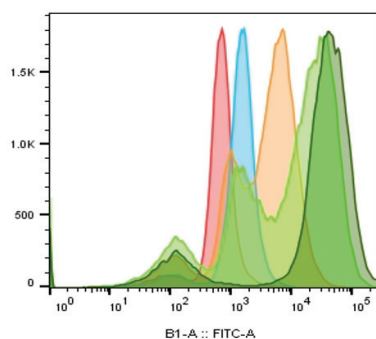
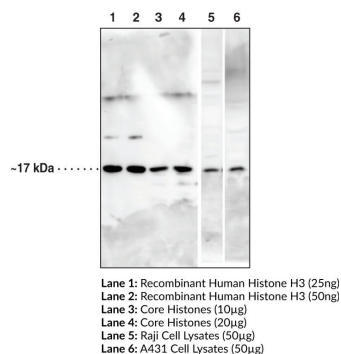
Histone H3 Polyclonal Antibody

Item No. 13781

Overview and Properties

Contents: This vial contains Protein A-purified IgG at 1 mg/ml.
Immunogen: Recombinant Histone H3 Protein
Cross Reactivity: (-) H2A, H2B, and H4
Species Reactivity: (+) Human H3
Uniprot No.: P68431
Form: Liquid
Storage: -20°C (as supplied)
Stability: As supplied, ≥1 year from the QC date provided on the Certificate of Analysis, when stored properly
Storage Buffer: PBS, pH 7.2, containing 50% glycerol with 0.1% BSA and 0.02% sodium azide
Host: Rabbit
Applications: ELISA, Flow Cytometry (FC), Immunoprecipitation (IP), and Western blot (WB); the recommended starting dilution for ELISA and WB is 1:200, 1:1000 for FC, and 20 µg of antibody per test for IP. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image(s)



Sample Name	Subset Name	Count
2017-06-26_A1.0010.fc3	Ungated	26503
2017-06-26_A1.0009.fc3	Ungated	33440
2017-06-26_A1.0008.fc3	Ungated	41028
2017-06-26_A1.0007.fc3	Ungated	46290
2017-06-26_A1.0006.fc3	Ungated	29048

Flow Cytometry: HeLa cells were PFA fixed and permeabilized followed by a fetal bovine serum block. Cells were probed with the indicated antibody and analyzed using a Miltenyi MACSQuant Analyzer.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

A nucleosome is the basic repeating unit of chromatin in which 146 base pairs of DNA wrap twice around a histone octamer consisting of two copies of each of the core histones, H2A, H2B, H3, and H4.¹ The combination of two H2A/H2B dimers and one H3/H4 tetramer create the nucleosome core.² Histone H3 undergoes many modifications which include acetylation, methylation, and phosphorylation that are important for regulation of gene transcription.¹ Predicted size of Histone H3 is 15.5 kDa and Cayman's Histone H3 monoclonal antibody detects a band at ~17 kDa by Western blot.

References

1. Bhaumik, S.R., Smith, E. and Shilatifard, A. Covalent modifications of histones during development and disease pathogenesis. *Nat. Struct. Mol. Biol.* **14(11)**, 1008-1016 (2007).
2. Tanaka, Y., Tawaramoto-Sasanuma, M., Kawaguchi, S., et al. Expression and purification of recombinant human histones. *Methods* **33**, 3-11 (2004).

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