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# Histone 1.0 Polyclonal Antibody

Catalog # AP70327

## Product Information

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|---|---|
| **Application** | WB, IHC-P, IF, ICC, E |
| **Primary Accession** | P07305 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 20863 |

## Additional Information

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|---|---|
| **Gene ID** | 3005 |
| **Other Names** | H1F0; H1FV; Histone H1.0; Histone H1'; Histone H1(0) |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

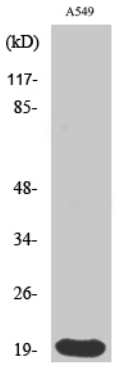
| | |
|---|---|
| **Name** | H1-0 ( HGNC:4714) |
| **Function** | Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed:33238161). Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers and promote formation of the H3K27me3 mark by the PRC2/EED-EZH2 complex (PubMed:33238161). The histones H1.0 are found in cells that are in terminal stages of differentiation or that have low rates of cell division (PubMed:7374750). |
| **Cellular Location** | Nucleus {ECO:0000255\|PROSITE-ProRule:PRU00837, ECO:0000269\|PubMed:18993075}. Nucleus, nucleolus. Chromosome {ECO:0000255\|PROSITE- ProRule:PRU00837, ECO:0000269\|PubMed:18993075, ECO:0000269\|PubMed:25645921, ECO:0000269\|PubMed:38530350} Note=Enriched at nucleolus-associated DNA repeats and chromatin domains (PubMed:25645921). During mitosis, it appears in the vicinity of condensed chromosomes (PubMed:18993075). The RNA edited version has been localized to nuclear speckles (PubMed:18993075). Comparted to other H1 histones, shows a less |

pronounced peripheral nuclear localization (PubMed:38530350).

## Background

Histones H1 are necessary for the condensation of nucleosome chains into higher-order structures. The H1F0 histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division.

## Images




Western Blot analysis of various cells using Histone 1.0 Polyclonal Antibody diluted at 1：2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.