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# Histone Antibody (1F0)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50646

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P07305 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Calculated MW** | 20863 |

## Additional Information

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|---|---|
| **Gene ID** | 3005 |
| **Other Names** | Histone H10, Histone H1', Histone H1(0), Histone H10, N-terminally processed, H1F0, H1FV |
| **Dilution** | WB~~1:1000 |
| **Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol. |
| **Storage Conditions** | -20℃ |

## Protein Information

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|---|---|
| **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).

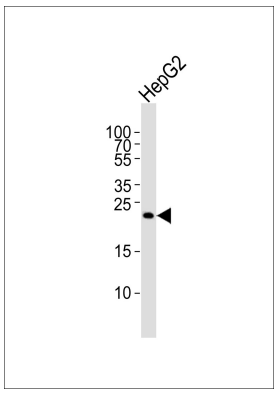
## Background

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.

## References

Doenecke D.,et al.J. Mol. Biol. 187:461-464(1986).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).

## Images




Western blot analysis of lysate from HepG2 cell line,using Histone Antibody (1F0)(AP50646). AP50646 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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