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Histone H1.0 Antibody

Rabbit mAb
Catalog # AP90851

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P07305
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Histone H1.0; Histone H1(0); Histone H1.0, N-terminally processed; H1F0; H1FV; Histone H5;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	20863

Additional Information

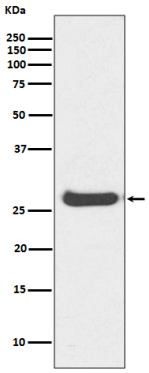
Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Histone H1.0
Description	Histone H1.0 is a lysine rich member of the H1 family of linker histones. The H1 family of proteins interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. 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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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).

Images



Western blot analysis of Histone H1.0 expression in Human kidney lysate.

Image not found : 202311/AP90851-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human testis, using Histone H1.0 Antibody.

Image not found : 202311/AP90851-IF.jpg

Immunofluorescent analysis of HepG2 cells, using Histone H1.0 Antibody.

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