10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Histone H1.0 H1F0 Rabbit Monoclonal Antibody

Catalog # ABO14127

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P07305
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Histone H1.0 H1F0 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	3005
Other Names	Histone H1.0, Histone H1', Histone H1(0), Histone H1.0, N-terminally processed, H1-0 (HGNC:4714)
Calculated MW	20863
Application Details	WB 1:1000-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Subcellular Localization	Nucleus. Chromosome. The RNA edited version has been localized to nuclear speckles. During mitosis, it appears in the vicinity of condensed chromosomes.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: HAG-8
Immunogen	A synthesized peptide derived from human Histone H1.0
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	H1-0 (HGNC:4714)

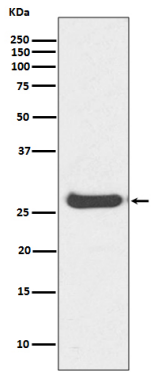
Function

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).

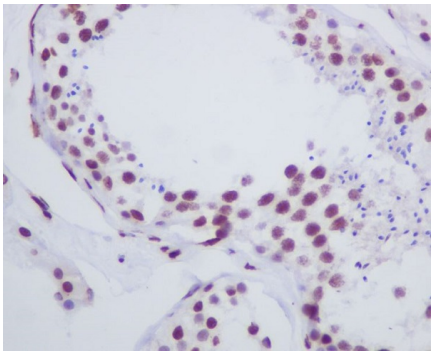
Cellular Location

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).

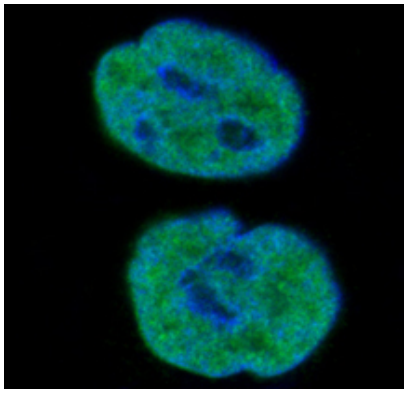
Images



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



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



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

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