

Histone H1 Rabbit mAb

Catalog # AP75538

Product Information

Application	WB, IHC-P
Primary Accession	P07305
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	20863

Additional Information

Gene ID	3005
Other Names	H1-0
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

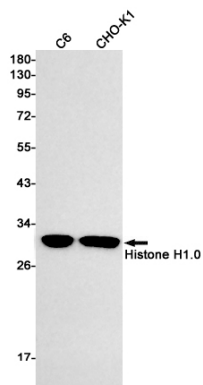
Name	H1-0 (HGNC:4714)
Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed: 33238161). Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers and promote formation 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). Compared to other H1 histones, shows a less pronounced peripheral nuclear localization (PubMed:38530350).

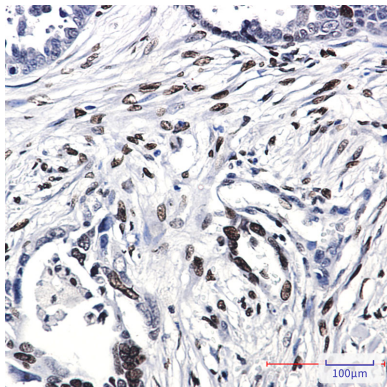
Background

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.

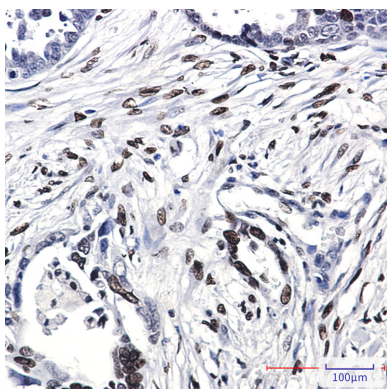
Images



Western blot analysis of Histone H1.0 in C6, CHO-K1 lysates using Histone H1.0 antibody.



Immunohistochemistry analysis of paraffin-embedded Human Cholangiocarcinoma using Histone H1.0 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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