

KD-Validated Anti-Histone H1.0 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1012

Product Information

Application	WB, ICC
Primary Accession	P07305
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 1965
Calculated MW	20863
Gene Name	H1-0
Aliases	H1-0; H1.0 Linker Histone; H1.0; H1F0; H1FV; H1 Histone Family Member 0; H1.0, H1(0), H1-0; Histone H1(0); Histone H1.0; Histone H1'; H1 Histone Family, Member 0; H10
Immunogen	A synthesized peptide derived from human Histone H1.0

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)

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).

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