

KD-Validated Anti-H1-3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2230

Product Information

Application	WB
Primary Accession	P16402
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB915
Calculated MW	22350
Gene Name	H1-3
Aliases	H1-3; H1.3 Linker Histone, Cluster Member; HIST1H1D; H1s-2; H1.3; H1F3; H1d; Histone Cluster 1 H1 Family Member D; H1 Histone Family, Member 3; Histone Cluster 1, H1d; Histone 1, H1d; Histone H1s-2 ;Histone H1.3; Histone H1c
Immunogen	A synthesized peptide derived from human Histone H1.3

Additional Information

Gene ID	3007
Other Names	Histone H1.3, Histone H1c, Histone H1s-2, H1-3 (HGNC:4717)

Protein Information

Name	H1-3 (HGNC:4717)
Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed: 37922872). 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: 40516528). Together with histone H1-3, histone H1-3 acts as a regulator of splicing, most specifically exon skipping and intron retention events: histone H1-3 has a high affinity for introns and regulates splicing by affecting RNA polymerase II (RNAPII) elongation (PubMed: 37922872). Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (By similarity).
Cellular Location	Nucleus. Chromosome. Note=Enriched at the nuclear periphery and colocalizes with compacted DNA (heterochromatin) (PubMed:38530350) According to PubMed:15911621 more commonly found in euchromatin According to PubMed:10997781 is associated with inactive chromatin

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