

Histone H1.3 Rabbit pAb

Catalog # AP53573

Product Information

Primary Accession	P16402
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	22350

Additional Information

Gene ID	3007
Other Names	Histone H1.3, Histone H1c, Histone H1s-2, H1-3 (HGNC:4717)
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

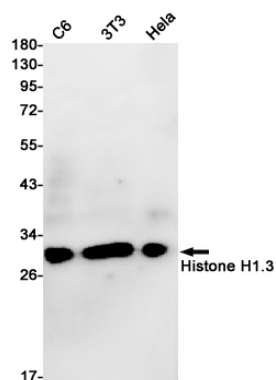
Protein Information

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

Background

Swiss-Prot Acc.P16402.Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber. Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers. Acts also as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation .

Images



Western blot detection of Histone H1.3 in C6,3T3,Hela cell lysates using Histone H1.3 Rabbit pAb(1:1000 diluted).Predicted band size:22kDa.Observed band size:30kDa.

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