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Phospho-Histone H1.4 (T17) Antibody

Rabbit mAb
Catalog # AP90503

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P10412
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Histone H1b; Histone H1s-4;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	21865

Additional Information

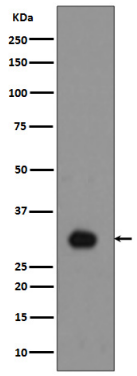
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-Histone H1.4 (T17)
Description	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin 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 (By similarity).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	H1-4 (HGNC:4718)
Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed:35581345, PubMed:40240600). 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:35581345, PubMed:40240600, PubMed:40516528). Ability to associate with nucleosomes and compact chromatin depends on linker DNA length and trajectory (PubMed:35581345). Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (PubMed:40240600).
Cellular Location	Nucleus. Chromosome. Note=Mainly localizes in heterochromatin (PubMed:40240600). Distributed throughout the nucleus; displays a

punctuate staining pattern in the nucleus (PubMed:38530350, PubMed:40240600).

Images



Western blot analysis of Phospho-Histone H1.4 (T17) expression in Jurkat cell lysate.

Image not found : 202311/AP90503-IHC.jpg

Immunohistochemical analysis of paraffin-embedded mouse colon, using Phospho-Histone H1.4 (T17) Antibody.

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