

Histone H1.X Rabbit pAb

Catalog # AP98055

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q92522
Other Accession	Q92522
Reactivity	Human, Mouse
Predicted	Rat, Pig, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22487
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Histone H1.X
Epitope Specificity	21-120/213
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the histone H1/H5 family.Contains 1 H15 (linker histone H1/H5 globular) domain.
Post-translational modifications	Citrullination at Arg-62 (H1R54ci) by PADI4 takes place within the DNA-binding site of H1 and results in its displacement from chromatin and global chromatin decondensation, thereby promoting pluripotency and stem cell maintenance (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a member of the histone H1 family. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8971
Other Names	H1.10; H1FX; H1X; Gm461; H1-10; H1X_HUMAN; Histone H1x; Q80ZM5_MOUSE; H1f10; H1.10 linker histone; H1 histone family, member X; H1 histone family member X
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	H1-10 (HGNC:4722)
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 , PubMed: 40516528).
Cellular Location	Nucleus. Nucleus, nucleolus. Chromosome. Note=Associated with RNA polymerase II- enriched regions on chromatin (PubMed:25645921). Distributed throughout the nucleus; enriched in high-GC regions (PubMed:38530350)
Tissue Location	Expressed ubiquitously.

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