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H1FX Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13731B

Product Information

Application	WB, E
Primary Accession	Q92522
Other Accession	NP_006017.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33707
Calculated MW	22487
Antigen Region	138-167

Additional Information

Gene ID	8971
Other Names	Histone H1x, H1FX
Target/Specificity	This H1FX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-167 amino acids from the C-terminal region of human H1FX.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	H1FX Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

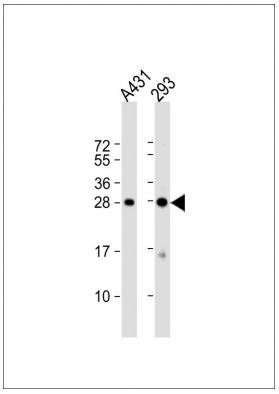
Background

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.

References

Warneboldt, J., et al. BMC Cancer 8, 388 (2008) :
Stoldt, S., et al. Biol. Cell 99(10):541-552(2007)
Takata, H., et al. FEBS Lett. 581(20):3783-3788(2007)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)

Images



All lanes : Anti-H1FX Antibody (C-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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