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Anti-Histone H1.0 Antibody

Catalog # AP60009

Product Information

Application	WB, IHC
Primary Accession	P07305
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20863

Additional Information

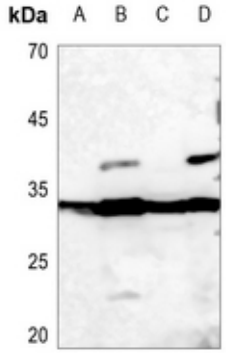
Gene ID	3005
Other Names	H1FV; Histone H1.0; Histone H1'; Histone H1(0)
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Histone H1.0. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

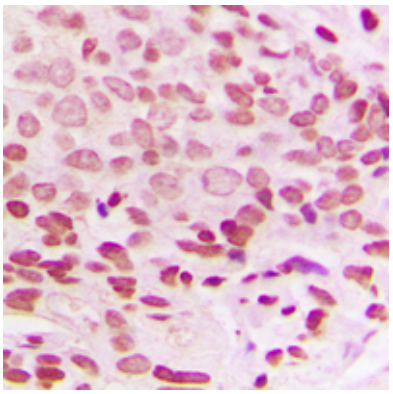
Name	H1-0 (HGNC:4714)
Function	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber (PubMed:33238161). Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers and promote formation of the H3K27me3 mark by the PRC2/EED-EZH2 complex (PubMed:33238161). The histones H1.0 are found in cells that are in terminal stages of differentiation or that have low rates of cell division (PubMed:7374750).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00837, ECO:0000269|PubMed:18993075}. Nucleus, nucleolus. Chromosome {ECO:0000255|PROSITE- ProRule:PRU00837, ECO:0000269|PubMed:18993075, ECO:0000269|PubMed:25645921, ECO:0000269|PubMed:38530350} Note=Enriched at nucleolus-associated DNA repeats and chromatin domains (PubMed:25645921). During mitosis, it appears in the vicinity of condensed chromosomes (PubMed:18993075). The

RNA edited version has been localized to nuclear speckles (PubMed:18993075). Comparted to other H1 histones, shows a less pronounced peripheral nuclear localization (PubMed:38530350).

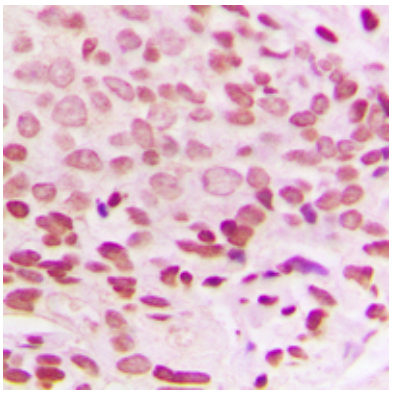
Images



Western blot analysis of Histone H1.0 expression in mouse liver (A), mouse kidney (B), rat liver (C), rat kidney (D) whole cell lysates. (Predicted band size: 20 kD; Observed band size: 33 kD)



Immunohistochemical analysis of Histone H1.0 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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