

Mouse Anti-HisT1H1A Monoclonal Antibody

Cat. No. DMABT-H16577 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Anti-HIST1H1A Monoclonal Antibody
Species	Human
Source	Mouse
Antigen Description	Histone H1 is one of the 5 main histone proteins involved in the structure of chromatin in eukaryotic cells. A variant of the histone H1 protein is the histone H5, which has a similar structure and function, but is only found in avian erythrocytes, which unlike mammals have nuclei. Featuring a central globular domain and long C and N terminal tails H1 is involved with the packing of the "beads on a string" structure into the "30nm solenoid" structure. H1 is present in half the amount of the other four histones. This is because unlike the other histones, H1 does not make up the nucleosome "bead". Instead, it sits on top of the structure, keeping in place the DNA that has wrapped around the nucleosome. Specifically, the H1 protein binds to the linker DNA (approximately 80 nucleotides in length); region between the histone beads, helping stabilize the zig-zagged 30nm chromatin fiber. H1 histone seals off the nucleosome at the location at which the linker DNA enters and leaves.
specificity	Anti-Human Histone H1 recognizes an antigen associated with Human Histone H1 in the nucleus of animals and plants. The sequence of the epitope is unmapped.
Target	HIST1H1A
Isotype	Mouse IgG2a

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

species	Human
Clone	BF5
Conjugation	N/A
Applications	N/A
Storage	For long term storage freeze working aliquots at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Size	2.0 ml

GENE INFORMATION

Gene Name	HIST1H1A histone cluster 1, H1a [Homo sapiens]
Official Symbol	HIST1H1A
Synonyms	HIST1H1A; histone cluster 1, H1a; H1 histone family, member2, H1F1, histone 1, H1a; histone H1.1; H1.1; H1a; histone 1, H1a; H1 histone family, member 1; H1A; H1F1; HIST1; MGC126642; MGC138345;
Gene ID	3024
mRNA Refseq	NM_005325
Protein Refseq	NP_005316
MIM	142709

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UniProt ID	Q02539
Chromosome Location	6p22.1
Pathway	Activation of DNA fragmentation factor, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis induced DNA fragmentation, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem;
Function	DNA binding;

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