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HIST1H3B Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02272

Basic Information

Catalog No.
RM02272

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
HIST1H3B

Species
Human

Gene ID
8350

Swiss Prot
P68431

Synonyms
H3/A; H3FA

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Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Product Information

Description
HIST1H3B Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:59bp deletion in exon1
Allele-2:59bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT GCCTCACCGTTACC**********ATTCGGAAGCTGCC
Mut GCCTCACCGTTACC***Deletion***ATTCGGAAGCTGCC
Allele-1: 59bp deletion in exon1

WT GCCTCACCGTTACC**********ATTCGGAAGCTGCC
Mut GCCTCACCGTTACC***Deletion***ATTCGGAAGCTGCC
Allele-2: 59bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and HIST1H3B knockout (KO) HeLa cells, using sanger sequencing.

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