HIST1H2BC siRNA – Histone H2B Type 1-C/E/F/G/I (Human)

PRODUCT OVERVIEW

Product Name	HIST1H2BC, siRNA
Full Product Name	HIST1H2BC siRNA (Human)
Product Gene Name	HIST1H2BC sirna
Product Synonym Names	H2BFL; H2BFH; H2BFG; H2BFA; H2BFK; Histone H2B type 1-C/E/F/G/I; Histone H2B.1 A; Histone H2B.a; H2B/a; Histone H2B.g; H2B/g; Histone H2B.h; H2B/h; Histone H2B.k; H2B/k; Histone H2B.l; H2B/l
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HIST1H2BC siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	13,906 Da
OMIM	602798
3D Structure	ModBase 3D Structure for P62807
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human HIST1H2BC gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for HIST1H2BC sirna	RNA Interference (RNAi)
Related Product Information for HIST1H2BC sirna	MBS8221816 is an siRNA targeting HIST1H2BC. Also known as HIST1H2BC siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HIST1H2BC expression using RNA interference
Other Notes	Small volumes of HIST1H2BC sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2BC. It may not necessarily be applicable to this product.

NCBI GI #	4504257
NCBI GeneID	8339
NCBI Accession #	NP_003509.1
UniProt Primary Accession #	P62807
UniProt Secondary Accession #	P02278; Q3B872; Q4VB69; Q93078; Q93080
UniProt Related Accession #	P62807
GenBank Nucleotide #	NM_003518.3
NCBI Official Full Name	histone H2B type 1-C/E/F/G/I
NCBI Official Synonym Full Names	histone cluster 1, H2bg
NCBI Official Symbol	HIST1H2BG
NCBI Official Synonym Symbols	H2B/a; H2BFA; H2B.1A; dJ221C16.8
UniProt Protein Name	Histone H2B type 1-C/E/F/G/I
UniProt Synonym Protein Names	Histone H2B.1 A; Histone H2B.a; H2B/a; Histone H2B.g; H2B/g; Histone H2B.h; H2B/h; Histone H2B.k; H2B/k; Histone H2B.l; H2B/l
Protein Family	Histone
UniProt Gene Name	HIST1H2BC
UniProt Synonym Gene Names	H2BFL; H2B/a; H2B/g; H2B/h; H2B/k; H2B/l
UniProt Entry Name	H2B1C_HUMAN
NCBI Protein Information	histone H2B type 1-C/E/F/G/I
NCBI Summary for HIST1H2BC	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. The protein has antibacterial and antifungal antimicrobial activity. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B 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]
UniProt Comments for HIST1H2BC	H2B1C: a core component of the nucleoosome. The nucleosome, a basic organizational unit of chromosomal DNA, is octrameric, consisting of two molecules each of histones H2B, H2A, H3, H4. The octamer wraps approximately 147 bp of DNA. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.1 Cellular Component: nucleoplasm; extracellular space; nucleosome; nucleus Molecular Function: DNA binding; protein heterodimerization activity Biological Process: nucleosome assembly; establishment and/or maintenance of chromatin architecture; defense response to Gram-positive bacterium; innate immune response in mucosa; antibacterial humoral response
Research Articles on HIST1H2BC	**1.** Histone H2B antimicrobial peptides participate in the colonic defense against bacteria and fungi.

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