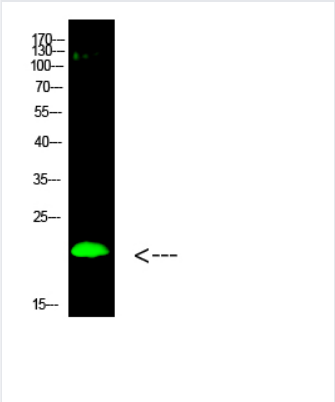
H3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	H3, Polyclonal Antibody
Full Product Name	Histone H3 (Di-Methyl-K80) Polyclonal Antibody
Product Gene Name	anti-H3 antibody
Product Synonym Names	Histone H3; Histone H3 (Di-Methyl-K80)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of Histone H3 (Di-Methyl-K80)), It doesn't reacte with total or Tri-Methy or Mono-Methyl protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	17 kDa
OMIM	X00090 Genomic DNA
3D Structure	ModBase 3D Structure for P68431
Immunogen	Synthesized Tri-Methyl peptide derived from human Histone H3. at AA range: K80
Immunogen Type	Protein
Product Categories/Family for anti-H3 antibody	Methyl-specific Ab
Applications Tested/Suitable for anti-H3 antibody	Western Blot (WB)
Application Notes for anti-H3 antibody	WB: 1:500-1:2000
Related Product Information for anti-H3 antibody	MBS9428951 is an antibody targeting H3. Also known as Histone H3 (Di-Methyl-K80) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-H3 antibody 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.



Western Blot (WB) of anti-H3 antibody
Western Blot analysis of hela cells using primary antibody diluted at 1:1000 (degree C overnight). Secondary antibody£ºGoat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25¡£C, 1 hour)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H3. It may not necessarily be applicable to this product.

NCBI GI #	4504281
NCBI GeneID	8350
NCBI Accession #	NP_003520.1
UniProt Primary Accession #	P68431
UniProt Secondary Accession #	P02295; P02296; P16106; Q6ISV8; Q6NWP8; Q6NWP9; Q6NXU4; Q71DJ3; Q93081; A0PJT7; A5PLR1
UniProt Related Accession #	P68431
GenBank Nucleotide #	NM_003529.2
NCBI Official Full Name	histone H3.1
NCBI Official Synonym Full Names	histone cluster 1 H3 family member a
NCBI Official Symbol	HIST1H3A
NCBI Official Synonym Symbols	H3/A; H3FA
UniProt Protein Name	Histone H3.1
UniProt Synonym Protein Names	Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l
Protein Family	Tyrosine phosphatase
UniProt Gene Name	HIST1H3A
UniProt Synonym Gene Names	H3FA
NCBI Protein Information	histone H3.1
NCBI Summary for H3	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]

UniProt Comments for H3	H3: Core component of nucleosome. 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. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Belongs to the histone H3 family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.2 Cellular Component: extracellular region; membrane; nuclear chromosome; nuclear chromosome, telomeric region; nucleoplasm; nucleosome; nucleus; protein complex Molecular Function: cadherin binding; histone binding; nucleosomal DNA binding; protein binding Biological Process: blood coagulation; cellular protein metabolic process; chromatin silencing at rDNA; DNA replication-dependent nucleosome assembly; establishment and/or maintenance of chromatin architecture; negative regulation of gene expression, epigenetic; nucleosome assembly; positive regulation of gene expression, epigenetic; protein heterotetramerization; telomere organization and biogenesis
Research Articles on H3	**1.** Histone H3 lysine 9 (H3K9) acetylation was most prevalent when the Dbf4 transcription level was highest whereas the H3K9me3 level was greatest during and just after replication.
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