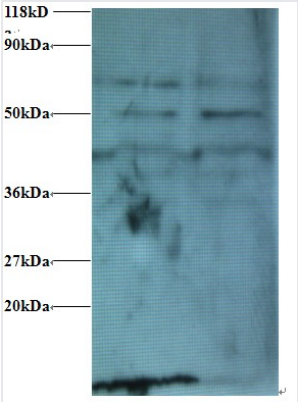
Histone H3.3 (H3.3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Histone H3.3, Polyclonal Antibody
Full Product Name	Rabbit anti-human Histone H3.3 polyclonal Antibody, HRP conjugated
Product Gene Name	anti-H3.3 antibody
Product Synonym Names	H3F3B; H3.3B; H3F3A; H3.3A; H3F3; PP781; Histone H3.3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: H3.3 (MBS715567) HRP Conjugated Antibody: H3.3 (MBS715388)
Molecular Weight	15,328 Da
OMIM	601058
3D Structure	ModBase 3D Structure for P84243
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human Histone H3.3 protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-H3.3 antibody	ELISA (EIA)
Related Product Information for anti-H3.3 antibody	Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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.
Other Notes	Small volumes of anti-H3.3 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.
Searchable Terms for H3.3 purchase	MBS715388 is an antibody targeting H3.3. Also known as Rabbit anti-human Histone H3.3 polyclonal Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.



Western Blot of anti-H3.3 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H3.3. It may not necessarily be applicable to this product.

NCBI GI #	4504279
NCBI GeneID	3020
NCBI Accession #	NP_002098.1
UniProt Primary Accession #	P84243
UniProt Secondary Accession #	P06351; P33155; Q5VV55; Q5VV56; Q66I33; Q9V3W4
UniProt Related Accession #	P84243
GenBank Nucleotide #	NM_002107.4
NCBI Official Full Name	histone H3.3
NCBI Official Synonym Full Names	H3 histone, family 3A
NCBI Official Symbol	H3F3A
NCBI Official Synonym Symbols	H3F3; H3.3A
UniProt Protein Name	Histone H3.3
Protein Family	Histone
UniProt Gene Name	H3F3A
UniProt Synonym Gene Names	H3.3A; H3F3
UniProt Entry Name	H33_HUMAN
NCBI Protein Information	histone H3.3
NCBI Summary for H3.3	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family. [provided by RefSeq, Jul 2008]

UniProt Comments for H3.3	H3F3A: Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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. Interacts with HIRA, a chaperone required for its incorporation into nucleosomes. Belongs to the histone H3 family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1q42.12 Cellular Component: extracellular region; nuclear chromosome; nuclear chromosome, telomeric region; nucleoplasm; nucleosome; nucleus; protein complex Molecular Function: histone binding; nucleosomal DNA binding; protein binding; protein heterodimerization activity Biological Process: blood coagulation; brain development; cellular protein metabolic process; chromatin silencing at rDNA; DNA methylation on cytosine; DNA replication-independent nucleosome assembly; gene expression; negative regulation of gene expression, epigenetic; nucleosome assembly; positive regulation of cell growth; positive regulation of gene expression, epigenetic; regulation of gene expression, epigenetic; response to hormone stimulus; RNA-mediated gene silencing; small GTPase mediated signal transduction; telomere organization and biogenesis
Research Articles on H3.3	**1.** H3F3A and H3F3B mutation analysis appears to be a highly specific, although less sensitive, diagnostic tool for the distinction of GCTB and chondroblastoma from other giant cell-containing tumors.
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