

Histone H3K36 Methylation Antibody Panel Pack

Base Catalog # C10008

PACK CONTENTS

Component	Size	Shipping Temperature	Storage Upon Receipt	Storage Checklist
3K36M Histone H3K36me1 (H3K36 Monomethyl) Polyclonal Antibody	25 µl	4°C	–20°C	
3K36D Histone H3K36me2 (H3K36 Dimethyl) Polyclonal Antibody	25 µl	4°C	–20°C	
3K36T Histone H3K36me3 (H3K36 Trimethyl) Polyclonal Antibody	25 µl	4°C	–20°C	
HGR2 HRP-Goat Anti-Rabbit Secondary Antibody	50 µg	4°C	-20°C	

SHIPPING & STORAGE

This product is shipped on frozen ice packs at 4°C. Upon receipt: (1) Store all components at -20°C away from light.

All components are stable for 6 months from the date of shipment, when stored properly.



Histone H3K36me1 (H3K36 Monomethyl) Polyclonal Antibody

Component Cat. #C10008-3K36M

Background

Modulation of chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin. The amino-terminal tails of core histones undergo various post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination. These modifications occur in response to various stimuli and have a direct effect on the accessibility of chromatin to transcription factors and, therefore, gene expression. In most species, histone H2B is primarily acetylated at Lys5, 12, 15, and 20. Histone H3 is primarily acetylated at Lys9, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10, Ser28, and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis. Phosphorylation at Thr3 of histone H3 is highly conserved among many species and is catalyzed by the kinase haspin. Immunostaining with phospho-specific antibodies in mammalian cells reveals mitotic phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase.

Description

Histone H3K36me1 (H3K36 Monomethyl) Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation

PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity Broad Range, Mouse, Rat, Human

Isotype IgG

Uniprot ID

Q16695

Purification Affinity Purified

Immunogen

A synthetic monomethylated peptide around K36 of human histone H3 (NP_003520.1)

Storage

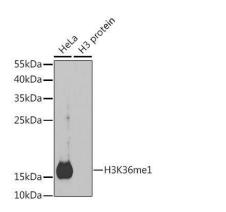
Shipped at 4°C. Upon receipt, store at -20°C. Avoid repeated freeze.

Alternative Names

HIST1H3J; H3/j; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b;Histone H3/c; Histone H3/d; Histone H3/f;Histone H3/h; Histone H3/l; Histone H3/l; HIST3H3; H3K36me1 antibody; H3K36m1 antibody

Application

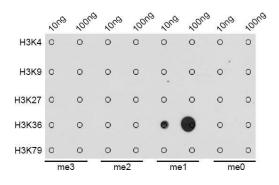
WB, IF, IP, ChIP, ChIP-seq; Recommended dilution: WB 1:500 - 1:2000, IF 1:50 - 1:200, IP 1:50 - 1:200, ChIP 1:20 - 1:100, ChIP-seq 1:20 - 1:100



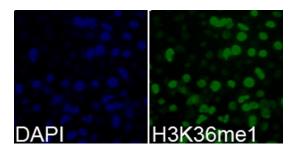
Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-K36 antibody. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

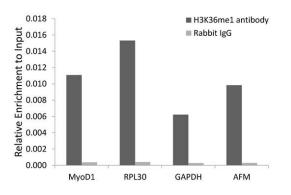
Blocking buffer: 3% nonfat dry milk in TBST.



Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-K36 antibody.



Immunofluorescence analysis of 293T cells using MonoMethyl-Histone H3-K36 antibody. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of 293 cell line, using MonoMethyl-Histone H3-K36 antibody and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Histone H3K36me2 (H3K36 Dimethyl) Polyclonal Antibody

Component Cat. #C10008-3K36D

Background

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. 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

Description

Histone H3K36me2 (H3K36 Dimethyl) Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation

PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity Broad Range, Mouse, Rat, Human

Isotype IgG

Uniprot ID Q16695

Purification Affinity Purified

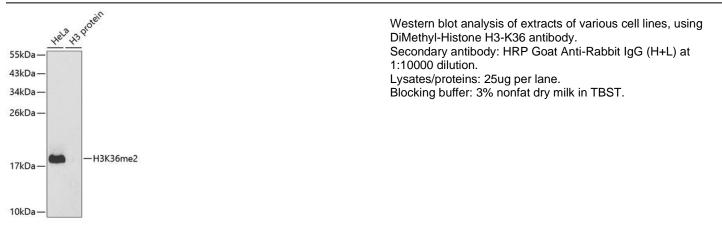
Immunogen A synthetic dimethylated peptide around K36 of human histone H3 (NP_003520.1)

Storage

Shipped at 4°C. Store at -20°C. Avoid multiple freeze/thaw cycles.

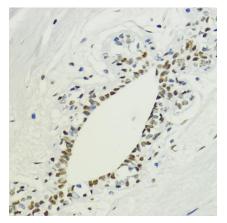
Application

WB, IHC, IF, IP, ChIP, ChIPseq; Recommended dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:50 - 1:200 ChIP 1:20 - 1:100 CHIPseq 1:20 - 1:100

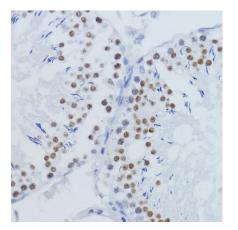


	H3R2		H3K4		H3R8		H3K9		H3R17		H3R26	
	tong	50n9	tong	50n9	10ng	50n9	tong	50n9	1009	50n9	10ng	50ng
me0	0	0	0	0	0	0	0	0	0	0	0	0
me1	0	0	0	0	0	0	0	0	0	0	0	0
me2/ me2a	0	0	0	0	0	0	0	0	0	0	0	0
me3/ me2s	0	0	0	0	0	0	0	0	0	0	0	0
	нз	K27	НЗ	K36	НЗ	K56	НЗ	K79	H4	R3	H4	K20
me0	0	0	0	0	0	0	0	0	0	0	0	0
me1	0	0	0	0	0	0	0	0	0	0	0	0
me2/ me2a	0	0	0	•	0	0	0	0	0	0	0	0
me3/ me2s	0	0	0	0	0	0	0	0	0	0	0	0

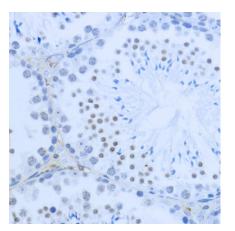
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K36 antibody.



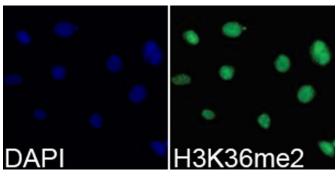
Immunohistochemistry of paraffin-embedded human breast using DiMethyl-Histone H3-K36 antibody at dilution of 1:200 (40x lens).



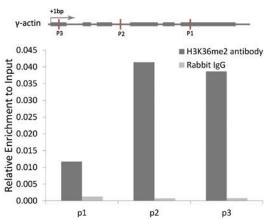
Immunohistochemistry of paraffin-embedded rat testis using DiMethyl-Histone H3-K36 antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse testis using DiMethyl-Histone H3-K36 antibody at dilution of 1:200 (40x lens).



Immunofluorescence analysis of 293T cells using DiMethyl-Histone H3-K36 antibody. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of γ -actin gene from 293 cell line, using DiMethyl-Histone H3-K36 antibody and rabbit IgG. P1, P2 and P3 were probes located on γ -actin gene as the schematic diagram illustrated. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Histone H3K36me3 (H3K36 Trimethyl) Polyclonal Antibody

(Component Cat. #C10008-3K36T

Background

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. 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

Description

Histone H3K36me3 (H3K36 Trimethyl) Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation

PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Specificity

Broad Range, Mouse, Rat, Human

Isotype IgG

Uniprot ID Q16695

Purification Affinity Purified

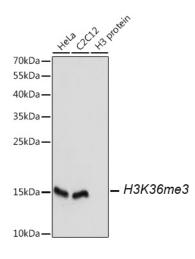
Immunogen A synthetic trimethylated peptide around K36 of human histone H3 (NP_003520.1)

Storage

Shipped at 4°C. Store at -20°C. Avoid multiple freeze/thaw cycles.

Application

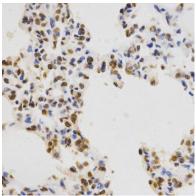
WB, IHC, IF, IP, ChIP, ChIPseq; Recommended dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:50 - 1:200 ChIP 1:20 - 1:100 CHIPseq 1:20 - 1:100



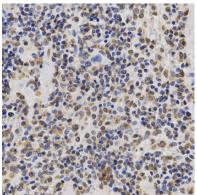
Western blot analysis of Histone H3K36me3 Polyclonal Antibody.

	10ng	100ng	10ng	10000	,ong	100mg	10ng	100m9
H3K4	0	0	0	0	0	0	0	0
H3K9	0	0	0	0	0.	0	0	0
H3K27	0	0	0	0	0	0	0	0
H3K36	•	•	0	0	0	0	0	0
H3K79	0	0	0	0	0	0	0	0
	me3	3	me2	2	me	1	me	0

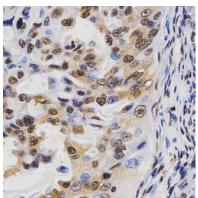
Dot-blot analysis Histone H3K36me3 Polyclonal Antibody.



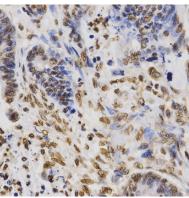
Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



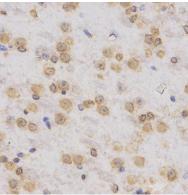
Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



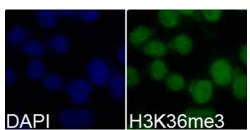
Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



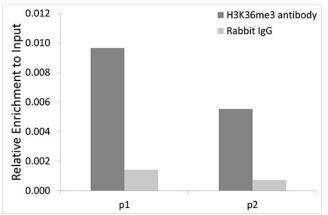
Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



Immunohistochemistry of Histone H3K36me3 Polyclonal Antibody



Chromatin immunoprecipitation Histone H3K36me3 Polyclonal Antibody



HRP-Goat Anti-Rabbit Secondary Antibody

(Component Cat. #C10008-HGR2

Description

Goat anti-rabbit IgG recognizes rabbit IgG whole molecule. This secondary antibody was purified using antigen affinity chromatography. The antibody is conjugated with peroxidase.

Antibody Type

Polyclonal Antibody

Purification

Liquid; This product was prepared from monospecific antiserum by immunoaffinity chromatography, followed by solid phase adsorption(s) to remove any unwanted reactivities.

Immunogen Rabbit IgG whole molecule

Isotype IgG

Formulation In 10 mM sodium phosphate, 75 mM NaCl, 50% (v/v) glycerol, pH 7.2. **Specificity** Rabbit

Storage

Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Handling Recommendations

The optimal working dilution should be determined by the end user. For maximum recovery of the products, centrifuge the vial prior to opening the cap.

Applications & Suggested Dilutions

Western Blot: 1:1000-1: 10000; Immunohistochemistry:1:100-1:500; Immunofluorescence: 1:100-1:500; ELISA: 1:2000-1:20000

RELATED PRODUCTS

Histone Modification Antibodies

A-4040	Histone H3K36me1 (H3K36 Monomethyl) Polyclonal Antibody
A-4041	Histone H3K36me2 (H3K36 Dimethyl) Polyclonal Antibody
A-4042	Histone H3K36me3 (H3K36 Trimethyl) Polyclonal Antibody
A12004	HRP-Goat Anti-Rabbit Secondary Antibody

Histone Modification Panel Packs

C10000 C10001 C10002 C10003 C10004 C10005 C10006 C10007 C10008 C10009 C10010 C10011 C10012 C10013 C10014 C10015 C10016	Histone H3 Methylation Antibody Panel Pack I – Active Genes Histone H3 Methylation Antibody Panel Pack I – Repression Genes Histone H3 Methylation Antibody Panel Pack II – Active Genes Histone H3 Methylation Antibody Panel Pack II – Repression Genes Histone H3 Methylation Antibody Panel Pack III – Active Genes Histone H3K4 Methylation Antibody Panel Pack Histone H3K9 Methylation Antibody Panel Pack Histone H3K27 Methylation Antibody Panel Pack Histone H3K36 Methylation Antibody Panel Pack Histone H3K36 Methylation Antibody Panel Pack Histone H3K79 Methylation Antibody Panel Pack Histone H3 Acetylation Antibody Panel Pack Histone H3 Acetylation Antibody Panel Pack I Histone H3 Acetylation Antibody Panel Pack II Histone H4 Acetylation Antibody Panel Pack Histone H4 Acetylation Antibody Panel Pack Histone H3 Phosphorylation Antibody Panel Pack Histone H3R2 Methylation Antibody Panel Pack
C10016	Histone H3R8 Methylation Antibody Panel Pack
C10017	Histone H3R17 Methylation Antibody Panel Pack
C10018	Histone H3R26 Methylation Antibody Panel Pack
C10019	Histone H4R3 Methylation Antibody Panel Pack

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