Anti-H3K36me2 (Histone H3 (dimethyl K36)) Antibody

Catalog Number: CE-H052r, 100 µg

Introduction	Histone H3.1 is a protein that in humans is encoded by the HIST1H3I gene. 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 is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3.
Description	Rabbit polyclonal antibody.
Applications	Western blot (1:500-1000), IF (1:100-500), and Dot blot (1:500), may be used for other applications.
Immunogen	Synthetic Histone H3 peptide with Lys36 dimethylated and conjugated to KLH (Genebank Accession No. NP_003520.1).
Specificity	Recognizes endogenous levels of Histone H3 dimethylation at Lys36.
Purification	Immunoaffinity chromatography**.**
Isotype	IgG.
Storage	Store at 4 ^{o}C; Stable for at least 6 months from the date of shipment. Non-hazardous. For long-term storage, keep at -20 ^{o}C.
Concentration	1 µg/µl.

Application data:

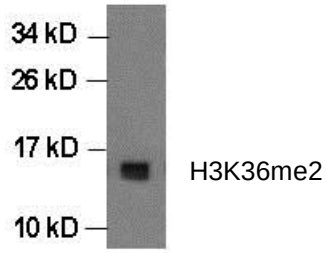

Fig. 1, Western Blot. Endogenous H3K36me2 detected in Hela nuclear extract (1:500 primary antibody).

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		H3K36me	H3K36me3	**H3K36me2**	H3K36me1
		H3K36me	H3K36me3	**H3K36me2**	H3K36me1
H3K79me2	H3K79me1	H4K20me	H4K20me3	H4K20me2	H4K20me1
H3K79me2	H3K79me1	H4K20me	H4K20me3	H4K20me2	H4K20me1

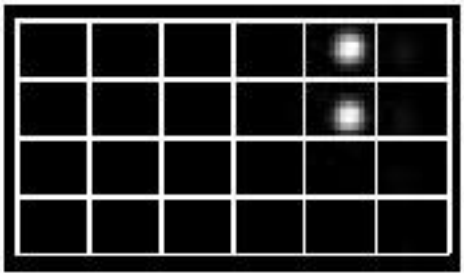

Fig. 2. Dot blot. The specificity of anti-H3K36me2 antibody was tested on a peptide-chip (peptides loaded shown on the left panel) by dot blot assay, which showed a specific reaction with H3K36me2 peptide (right panel) only.

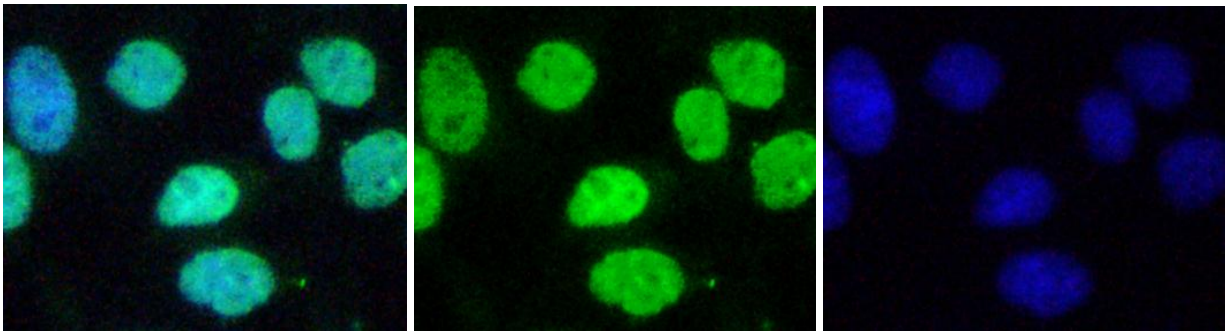

Fig. 3. Immunoflurescence (IF) analysis of H3K36me2 in Hela cells. Green, anti-H3K36me2; Blue, DAPI.

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