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DiMethyl-Histone H3-K36 Rabbit mAb

Catalog No.: A22087 Recombinant 1 Publications

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

Applications
WB,DB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

CloneNo number
ARC54175

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.

Recommended Dilutions

WB	1:2000 - 1:10000
DB	1:2000 - 1:10000
IHC-P	1:1000 - 1:5000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

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

Synonyms
H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K36

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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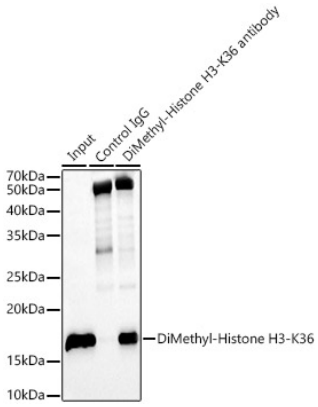
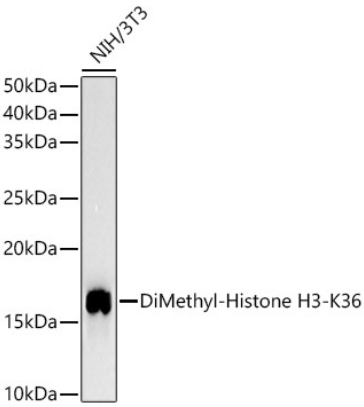
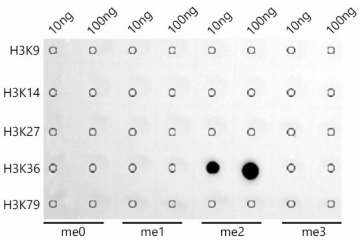
Validation Data



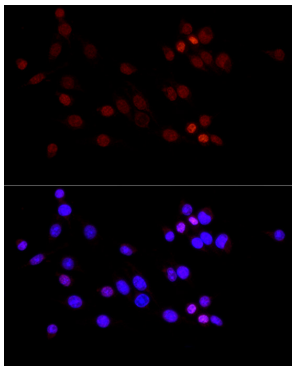
Immunoprecipitation analysis of 600 µg extracts of 293F cells using 5 µg DiMethyl-Histone H3-K36 antibody (A22087). Western blot was performed from the immunoprecipitate using DiMethyl-Histone H3-K36 antibody (A22087) at a dilution of 1:10000.



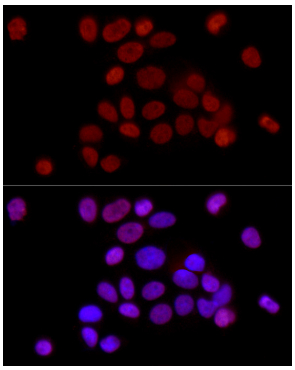
Western blot analysis of lysates from NIH/3T3 cells, using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at1:10000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Dot-blot analysis of all sorts of peptides using DiMethyl-Histone H3-K36 Rabbit mAb antibody (A22087) at 1:10000 dilution.

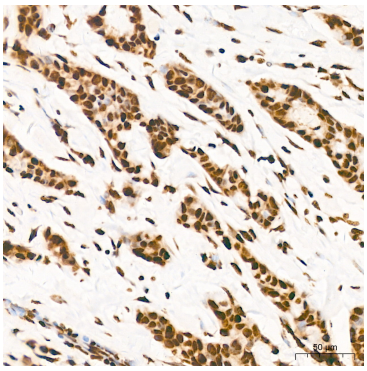


Immunofluorescence analysis of C6 cells using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at dilution of 1:200/1:500 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

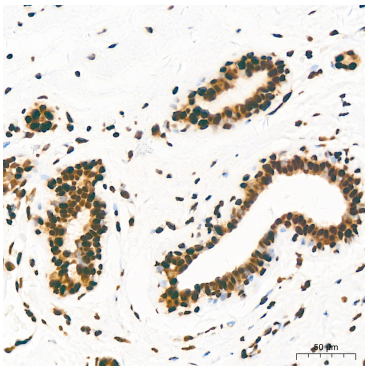


Immunofluorescence analysis of MCF7 cells using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at dilution of 1:200/1:500 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

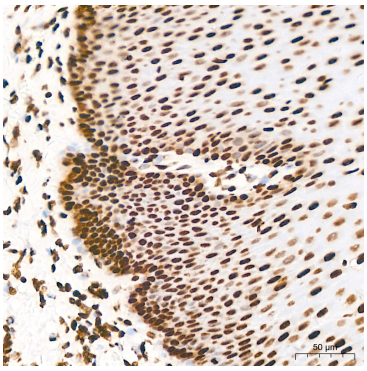
Validation Data



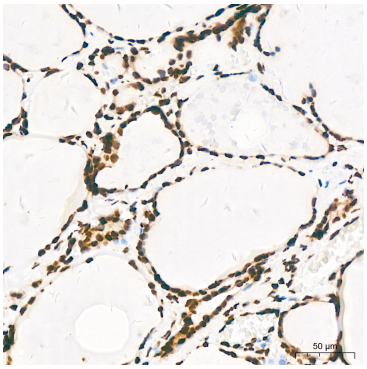
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



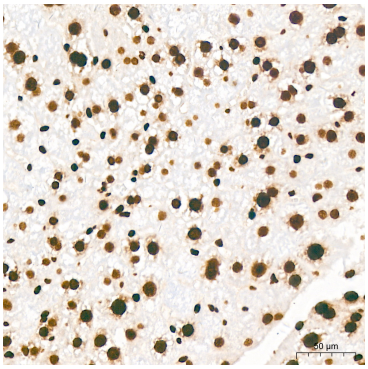
Immunohistochemistry analysis of paraffin-embedded Human breast tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



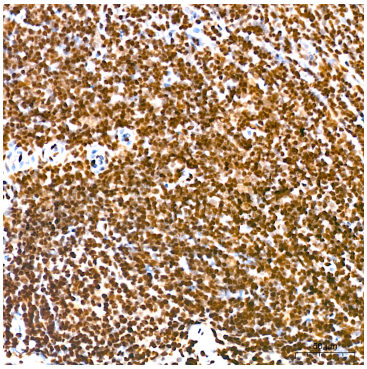
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



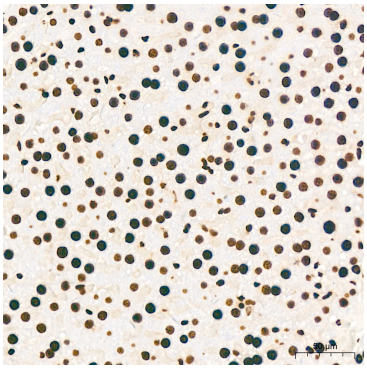
Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



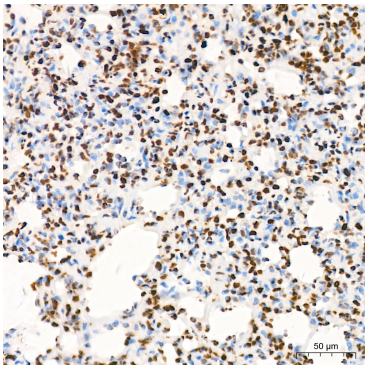
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using DiMethyl-Histone H3-K36 Rabbit mAb (A22087) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.