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TriMethyl-Histone H3-K36 Rabbit mAb

Catalog No.: A20379 Recombinant 10 Publications

Basic Information

Observed MW
17kDa

Calculated MW
15kDa

Category
Primary antibody

Applications
WB,DB,IHC-P,IP,ELISA,ChIP,ChIP-seq

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

CloneNo number
ARC50050

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	1:1000 - 1:6000
DB	1:500 - 1:1000
IHC-P	1:2000 - 1:8000
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

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; TriMethyl-Histone H3-K36

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

Contact

400-999-6126

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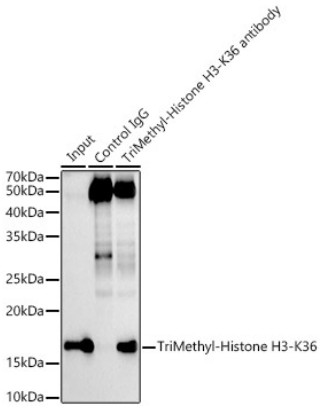
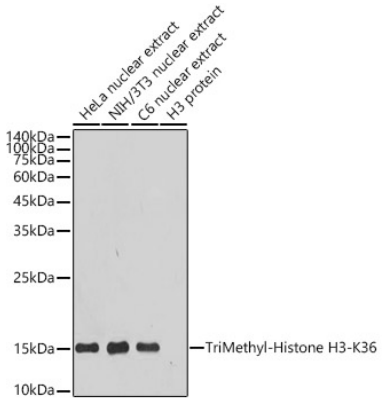
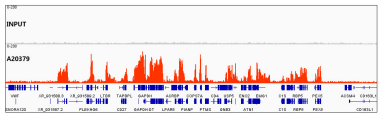
Validation Data



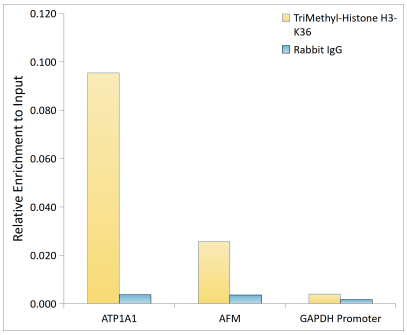
Immunoprecipitation analysis of 600 µg extracts of 293F cells using 5 µg TriMethyl-Histone H3-K36 antibody (A20379). Western blot was performed from the immunoprecipitate using TriMethyl-Histone H3-K36 antibody (A20379) at a dilution of 1:1000.



Western blot analysis of various lysates using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

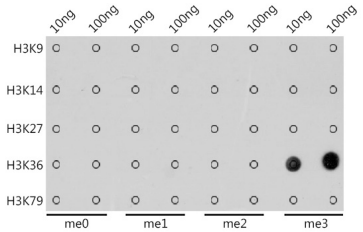


Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and H3K36me3 Rabbit mAb (A20379). The ChIP sequencing results indicate the enrichment pattern of H3K36me3 in selected genomic region and representative gene loci (GAPDH), as shown in figure.

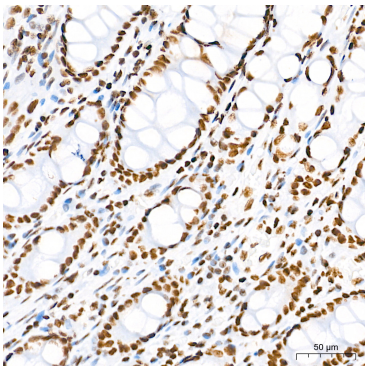


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K36 antibody (A20379) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

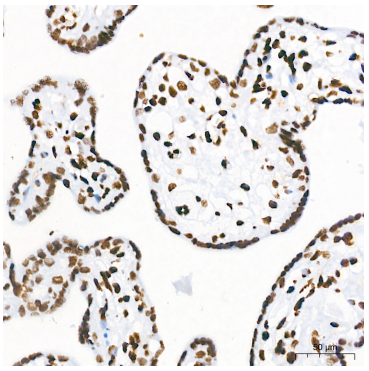
Validation Data



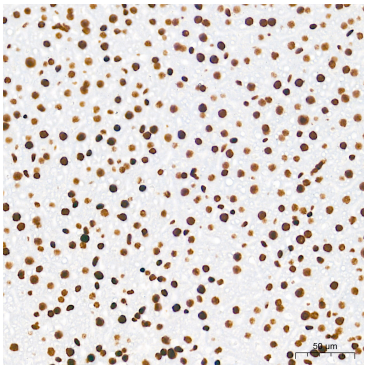
Dot-blot analysis of all sorts of peptides using TriMethyl-Histone H3-K36 antibody (A20379) at 1:1000 dilution.



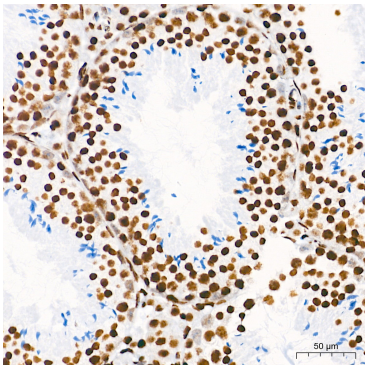
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



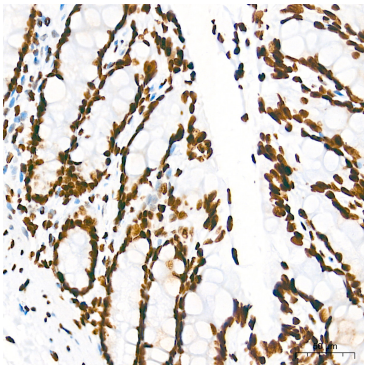
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



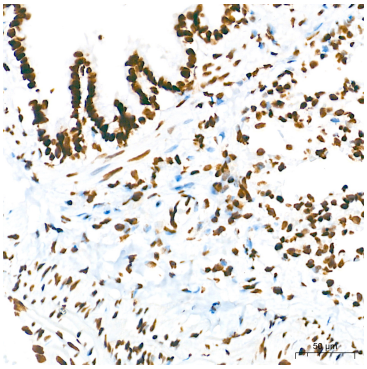
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.