

A20379

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TriMethyl-Histone H3-K36 Rabbit mAb

Catalog No.: A20379

Recombinant

3 Publications

Basic Information

Observed MW

Calculated MW

15kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

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

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

DB 1:500 - 1:1000

WB 1:500 - 1:1000

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

IHC-P 1:100 - 1:500

ChIP 5µg antibody for
5µg-10µg of Chromatin

ChIP-seq 1:50 - 1:100

Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

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

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°C. Avoid freeze / thaw cycles.

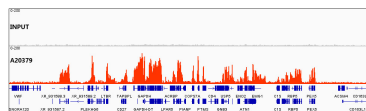
Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Contact



www.abclonal.com

Validation Data



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.

Western blot analysis of various lysates using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at 1:1000 dilution.

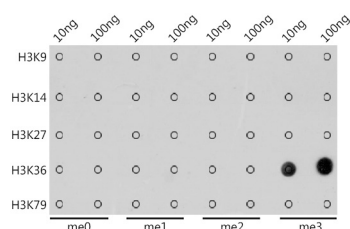
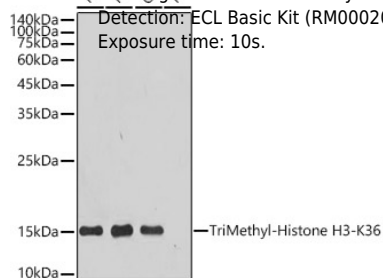
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

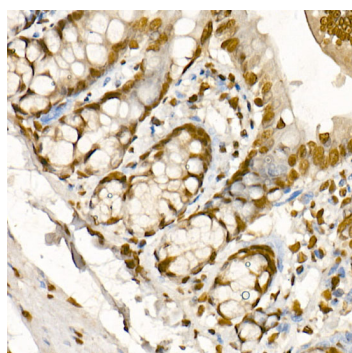
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

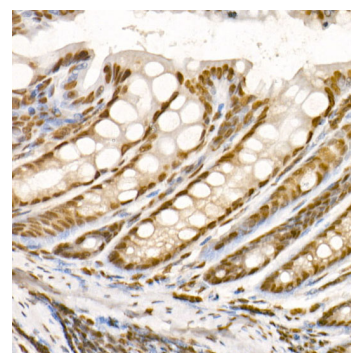
Exposure time: 10s.



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

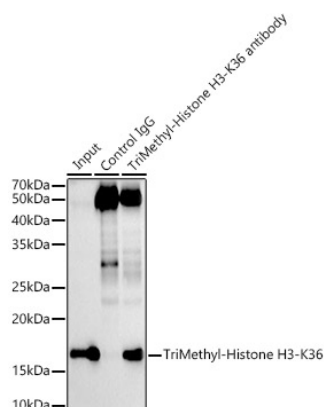


Immunohistochemistry analysis of TriMethyl-Histone H3-K36 in paraffin-embedded rat colon tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of TriMethyl-Histone H3-K36 in paraffin-embedded mouse colon tissue using TriMethyl-Histone H3-K36 Rabbit mAb (A20379) at a dilution of 1:500 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

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.



Validation Data



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.