MonoMethyl-Histone H3-K4 Rabbit mAb

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Catalog No.: A22078 Recombinant 1 Publications

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

WB,DB,IF/ICC,ELISA,CUT&Tag

Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

CloneNo number

ARC54646

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 - 1:20000

DB 1:1000 - 1:5000

IF/ICC 1:100 - 1:500

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements.

CUT&Tag 10⁵ cells /1 μg

Immunogen Information

 Gene ID
 Swiss Prot

 8290/8350
 Q16695/P68431

Immunogen

A synthetic monomethylated peptide around K4 of human Histone H3 (NP_003520.1).

Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; MonoMethyl-Histone H3-K4

Contact

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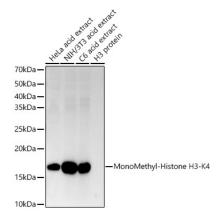
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.



Western blot analysis of various lysates using MonoMethyl-Histone H3-K4 Rabbit mAb (A22078) at1:20000 dilution

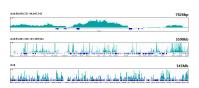
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

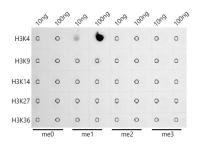
Lysates/proteins: 25µg per lane.

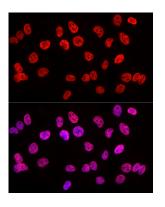
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 60s.



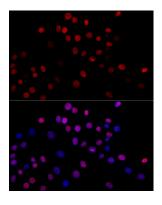




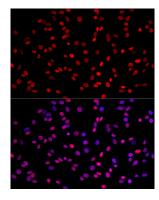
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 μ g MonoMethyl-Histone H3-K4 antibody (A22078), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of H3K4me1 in representative gene loci (RPL30), as shown in figure.

Dot-blot analysis of all sorts of peptides using MonoMethyl-Histone H3-K4 antibody (A22078) at 1:2000 dilution.

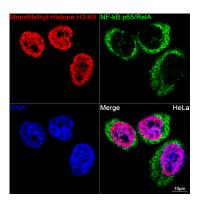
Immunofluorescence analysis of HeLa cells using MonoMethyl-Histone H3-K4 Rabbit mAb (A22078) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K4 Rabbit mAb (A22078) at dilution of 1:300 (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 PC-12 cells using MonoMethyl-Histone H3-K4 Rabbit mAb (A22078) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Confocal imaging of HeLa cells using MonoMethyl-Histone H3-K4 Rabbit mAb (A22078, dilution 1:300) (Green). The cells were counterstained with [KO Validated] NF-kB p65/RelA Rabbit mAb (A22331, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 60x.