

A2355

Leader in Biomolecular Solutions for Life Science



MonoMethyl-Histone H3-K4 Rabbit pAb

Catalog No.: A2355

35 Publications

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Mouse Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, ChIP, ChIP-seq, ELISA

Cross-Reactivity

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

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 | 1:500 - 1:1000 |
| IHC-P | 1:50 - 1:200 |
| IF/ICC | 1:50 - 1:200 |
| ChIP | 5µg antibody for 5µg-10µg of Chromatin |
| ChIP-seq | 1:20 - 1:100 |

Immunogen Information

Gene ID
8290/8350

Swiss Prot
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



www.abclonal.com

Product Information

Source
Rabbit

Isotype
IgG

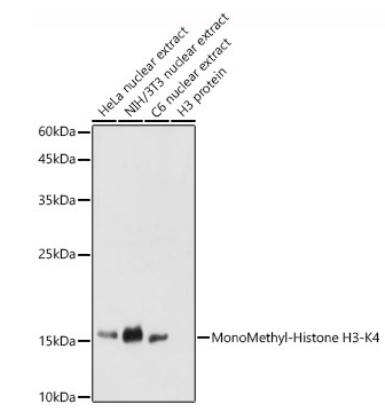
Purification
Affinity purification

Storage

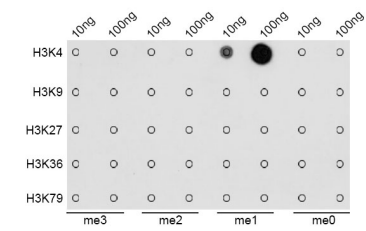
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

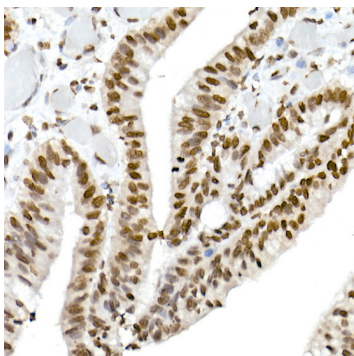
Validation Data



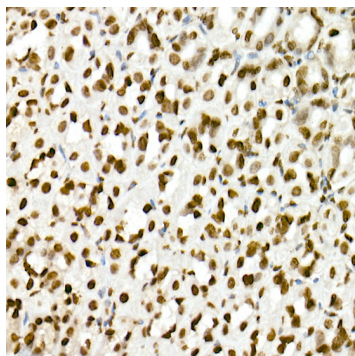
Western blot analysis of various lysates using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



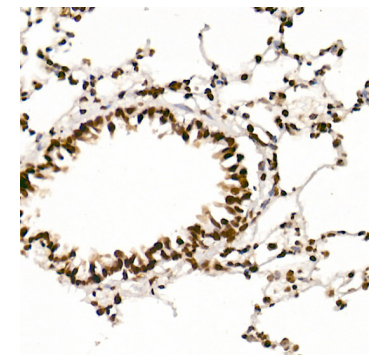
Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-K4 antibody (A2355).



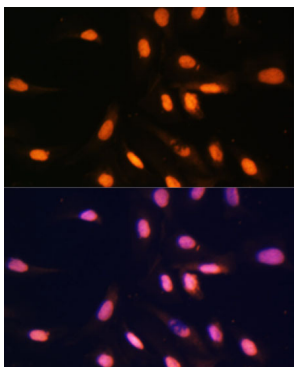
Immunohistochemistry analysis of MonoMethyl-Histone H3-K4 in paraffin-embedded human colon carcinoma using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



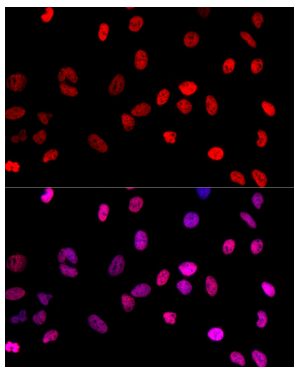
Immunohistochemistry analysis of MonoMethyl-Histone H3-K4 in paraffin-embedded mouse stomach using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of MonoMethyl-Histone H3-K4 in paraffin-embedded rat lung using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

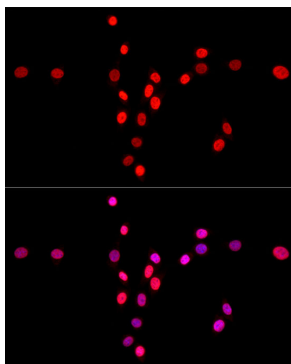


Immunofluorescence analysis of U-2 OS cells using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

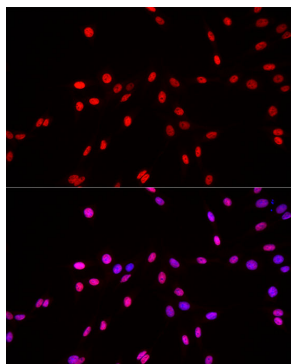


Immunofluorescence analysis of HeLa cells using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

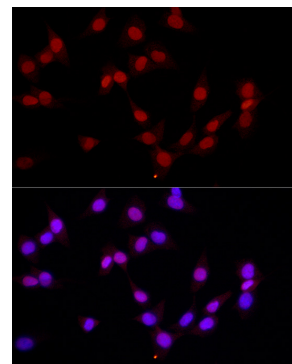
Validation Data



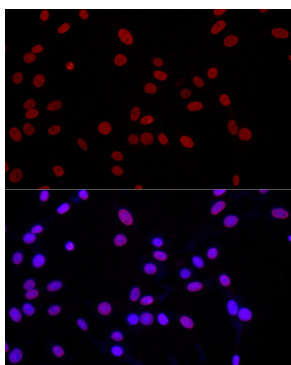
Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using MonoMethyl-Histone H3-K4 Rabbit pAb (A2355) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 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 pAb (A2355) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 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 pAb (A2355) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K4 Rabbit pAb antibody (A2355) 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.

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