Leader in Biomolecular Solutions for Life Science

www.abclonal.com

MonoMethyl-Histone H3-K79 Rabbit mAb

Catalog No.: A21223 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

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

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

CloneNo number
ARC53324

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

DB	1:2000 - 1:20000
WB	1:2000 - 1:4000
IHC-P	1:1000 - 1:5000
ChIP	5μg antibody for 5μg-10μg of Chromatin
ChIP-seq	1:50 - 1:200

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic monomethylated peptide around K79 of human Histone H3 (NP_003520.1).

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; MonoMethyl-Histone H3-K79

Contact

www.abclonal.com

Product Information

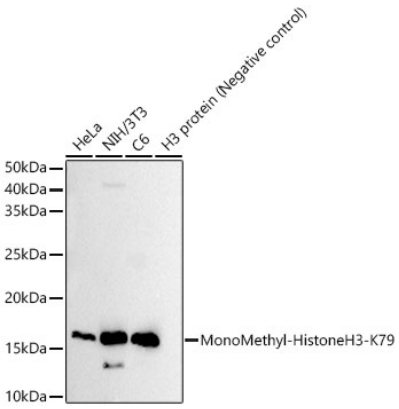
Source
Rabbit

Isotype
IgG

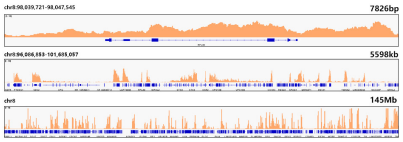
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

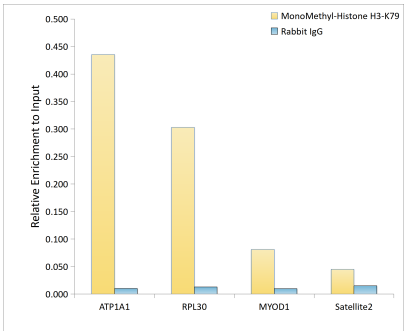
Validation Data



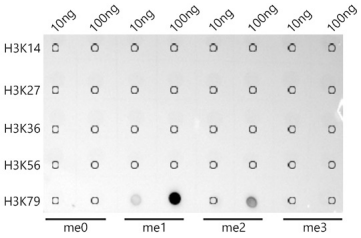
Western blot analysis of various lysates, using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at 1:4000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



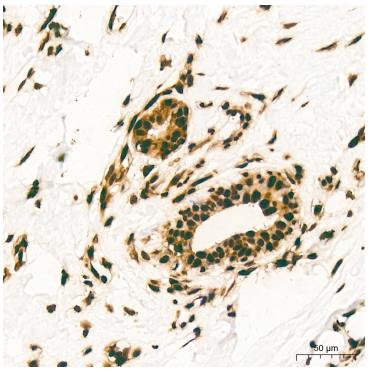
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and MonoMethyl-Histone H3-K79 Rabbit mAb (A21223). The ChIP sequencing results indicate the enrichment pattern of MonoMethyl-Histone H3-K79 in selected genomic region and representative gene loci (RPL30), as shown in figure.



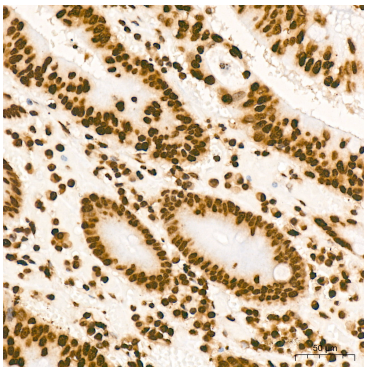
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K79 Rabbit mAb antibody (A21223) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Dot-blot analysis of all sorts of peptides



Immunohistochemistry analysis

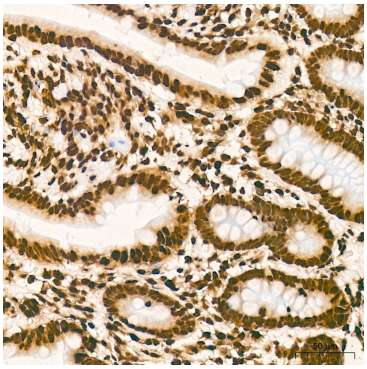


Immunohistochemistry analysis

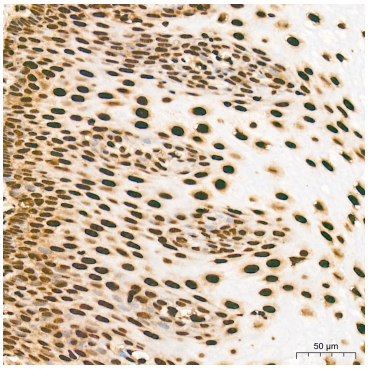
using MonoMethyl-Histone H3-K79 antibody (A21223) at 1:20000 dilution.

of MonoMethyl-Histone H3-K79 in paraffin-embedded human breast tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

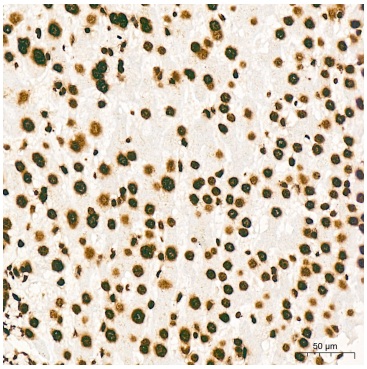
of MonoMethyl-Histone H3-K79 in paraffin-embedded human colon carcinoma tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



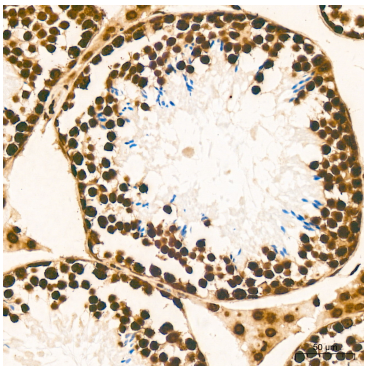
Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded human colon tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



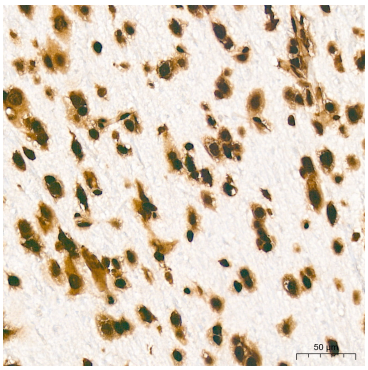
Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded human esophagus tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



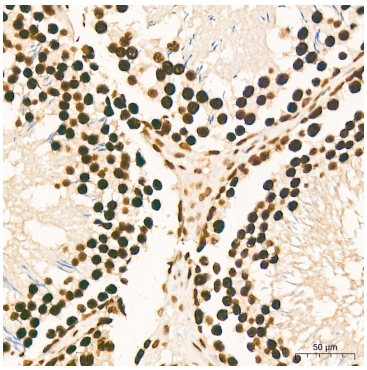
Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded human liver tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded mouse testis tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded rat brain tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of MonoMethyl-Histone H3-K79 in paraffin-embedded rat testis tissue using MonoMethyl-Histone H3-K79 Rabbit mAb (A21223) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.