MonoMethyl-Histone H3-K9 Rabbit pAb

Catalog No.: A2358 13 Publications



Basic Information

Observed MW 14 kDa

Calculated MW 15 kDa

Category Primary antibody

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

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

		j			
WB	1:500 - 1:1000	Gene ID		viss Prot	
DB	1:500 - 1:2000	8290/8350	Q1	6695/P68431	
IHC-P	1:50 - 1:200	Immunogen Synthetic peptide. This information is considered to be commercially sensitive.			
IF/ICC	1:50 - 1:200	Synonyms			
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.	H3t; H3.4; H3/g; H3	FT; H3C16; HIST3H3; MonoMe	hyl-Histone H3-K9	
ChIP	5µg antibody for	Product Information			
	5µg-10µg of Chromatin	Source	Isotype	Purification	
ChIP-seq	1:20 - 1:100	Rabbit	IgG	Affinity purification	

Immunogen Information

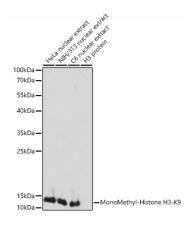
Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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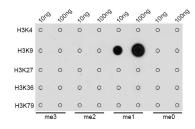
Western blot analysis of various lysates using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at 1:1000 dilution.

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: 5s.

0.025 100 0.020 0.020 0.015 0.015 0.010 MYOD1 GAPDH MonoMethyl-Histone H3-K9 Rabbit IgG 0.020 0.000 0.000 MYOD1 GAPDH

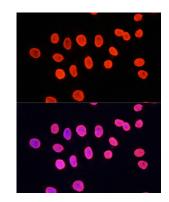
0.025 II MonoMethyl Histore H3-K9 III Rudeit gr0 0.015 9 0.015 Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K9 antibody (A2358) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K9 antibody (A2358) 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.

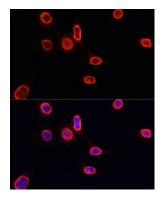


Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-K9 antibody (A2358).

Immunofluorescence analysis of C6 cells using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit

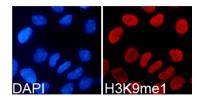


Immunofluorescence analysis of HeLa cells using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit

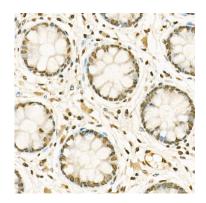


Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

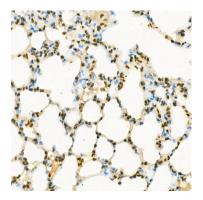
lgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of 293T cells using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358). Blue: DAPI for nuclear staining. IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Human colon using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse lung using MonoMethyl-Histone H3-K9 Rabbit pAb (A2358) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.