MonoMethyl-Histone H3-K27 Rabbit pAb

Catalog No.: A2361 6 Publications



Basic Information

Observed MW 17kDa

Calculated MW 15kDa

Category Primary antibody

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

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. 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	1:500 - 1:2000
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

Immunogen Information

Gene ID 8290/8350

Swiss Prot Q16695/P68431

Immunogen

A synthetic monomethylated peptide around K27 of human histone H3 (NP_003520.1).

Synonyms

H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; MonoMethyl-Histone H3-K27

Contact

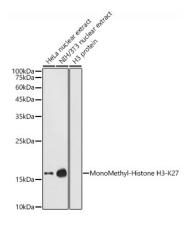
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cn.mark	et@abclonal.com.cn
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Product Information

Source Rabbit **Isotype** IgG **Purification** Affinity purification

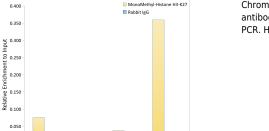
Storage

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



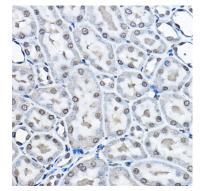
Western blot analysis of various lysates using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



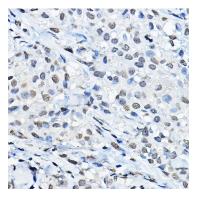
YOD1

Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K27 antibody (A2361) 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.

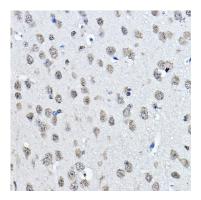


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Immunohistochemistry analysis of paraffinembedded rat kidney using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



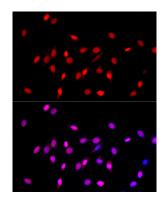
Immunohistochemistry analysis of paraffinembedded human breast cancer using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



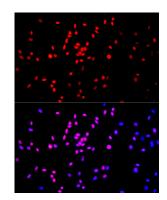
Immunohistochemistry analysis of paraffinembedded mouse brain using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Validation Data

	10rig	100ng	10ng	100ng	10ng	100ng	10ng	100n9
H3K4		0	0	0	0	0	0	0
H3K9	0	0	0	0	0	0	0	0
H3K27	0	0	0	0	• (0	,0 ,
H3K36	0	0	0	0	0	0	0	0
H3K79	0	0	0	0	0	0	0	0
	me3		me2		me1		me0	



Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (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-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-K27 antibody (A2361).