

DiMethyl-Histone H3-K4 Rabbit mAb

Catalog No.: RA8012

Basic Information

Observed MW

17kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

IF/ICC,ChIP

Cross-Reactivity

Human,Mouse,Rat,Other (Wide Range)

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

DB	1:10000 - 1:50000
WB	1:2000 - 1:20000
IHC-P	1:50 - 1:200
IF/ICC	1:100 - 1:500
ChIP	1:50 - 1:200

Product Information

Source	Rabbit
Isotype	IgG
Purification	Affinity purification
Storage	Store at -20℃. Avoid freeze / thaw cycles.
Storage Buffer	PBSwith0.05%proclin300, 0.05% BSA, 50% glycerol,pH7.3.

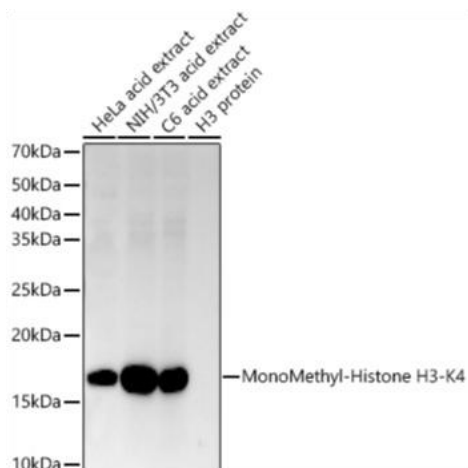
Note: For in vitro research use only, not for diagnostic or therapeutic use, This product is not a medical device.
注意:在体外研究使用, 不用于诊断或治疗用途, 本产品不是医疗装置!

Web:www.ruisbio.com

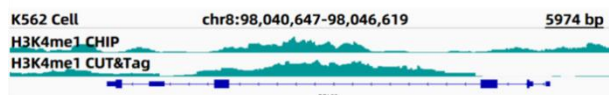
Tel:400-689-7068

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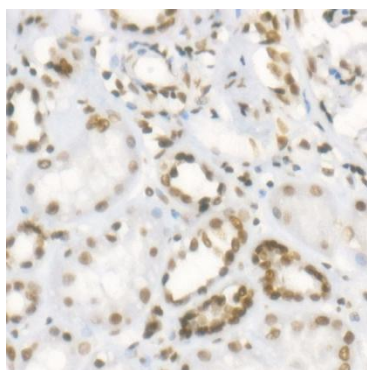




Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-K4 antibody (RA8012) at 1:20000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit.
Exposure time: 60s



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK9002) from 10^5 K562 cells with 1 µg MonoMethyl-Histone H3-K4 antibody (RA8012), 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.



Immunohistochemistry of paraffin-embedded human kidney using MonoMethyl-Histone H3-K4 Rabbit mAb 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.

