A4835

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Histone H3.3 Rabbit mAb

Catalog No.: A4835 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
15kDa

Category
SMab Recombinant Monoclonal Antibody

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

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

CloneNo number
ARC0255

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200
ChIP	2μg antibody for 5μg-10μg of Chromatin
ChIP-seq	1:50 - 1:200

Immunogen Information

Gene ID
3020

Swiss Prot
P84243

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 57-136 of human Histone H3.3 (P84243).

Synonyms
H3F3; H3-3B; H3.3A; H3F3A; BRYLIB1; Histone H3.3

Contact

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Product Information

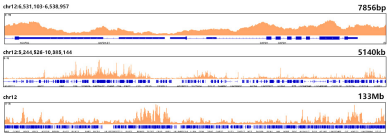
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

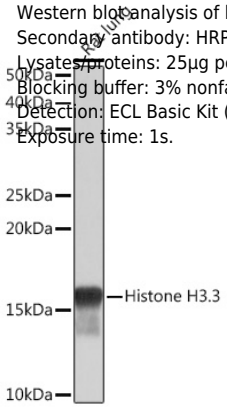
Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data

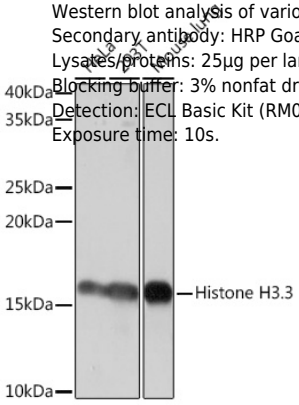


Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and Histone H3.3 Rabbit mAb (A4835). The ChIP sequencing results indicate the enrichment pattern of Histone H3.3 in selected genomic region and representative gene loci (GAPDH), as shown in figure.

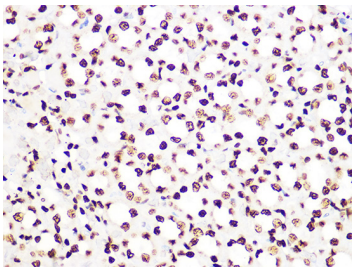
Western blot analysis of lysates from Rat lung, using Histone H3.3 Rabbit mAb (A4835) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



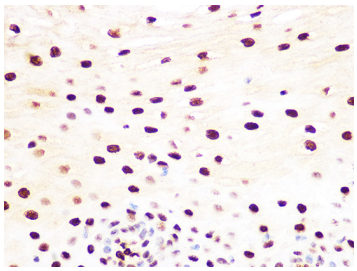
Western blot analysis of various lysates using Histone H3.3 Rabbit mAb (A4835) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



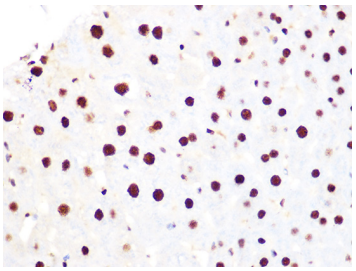
Validation Data



Immunohistochemistry analysis of Histone H3.3 in paraffin-embedded rat kidney using Histone H3.3 Rabbit mAb (A4835) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Histone H3.3 in paraffin-embedded human esophageal using Histone H3.3 Rabbit mAb (A4835) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Histone H3.3 in paraffin-embedded mouse liver using Histone H3.3 Rabbit mAb (A4835) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Histone H3.3 antibody (A4835) 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.