A26075

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Histone H2B Rabbit mAb

Catalog No.: A26075 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
14kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IHC-P,ChIP,ELISA

Cross-Reactivity
Human,Mouse,Rat

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 encodes a replication-dependent histone that is a member of the histone H2B family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. The protein has antibacterial and antifungal antimicrobial activity.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:2000 - 1:4000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
ChIP	3 μg antibody for 5μg-10μg of Chromatin

Contact

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Immunogen Information

Gene ID
3017/8349

Swiss Prot
P62807/Q16778

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
H2B; H2BE; H2BQ; GL105; H2B.1; H2BFQ; H2BGL105; H2B-GL105; HIST2H2BE; Formyl-Histone H2B-K108

Product Information

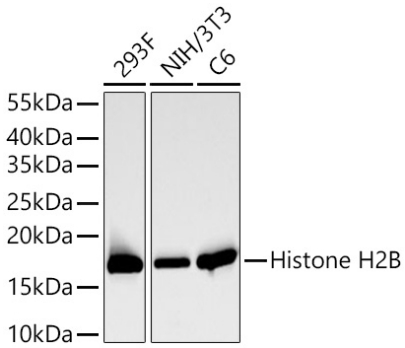
Source
Rabbit

Isotype
IgG

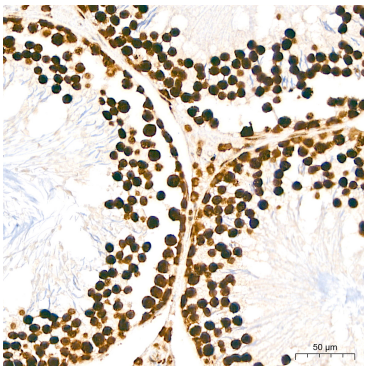
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3

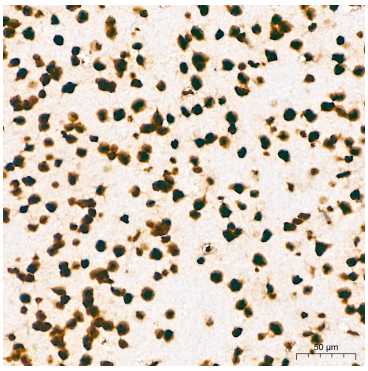
Validation Data



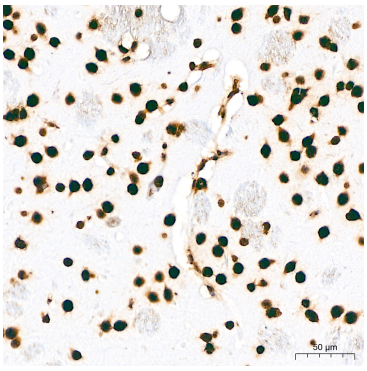
Western blot analysis of various lysates using Histone H2B Rabbit mAb (A26075) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



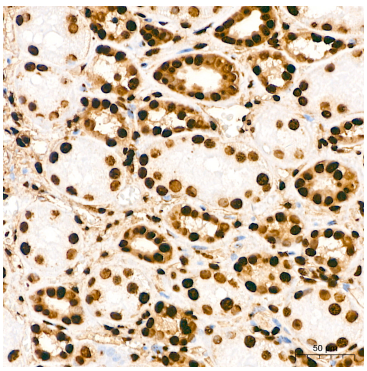
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using Histone H2B Rabbit mAb (A26075) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



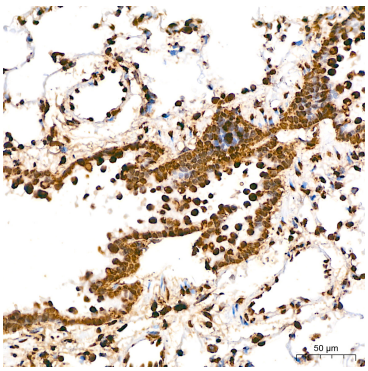
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Histone H2B Rabbit mAb (A26075) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Histone H2B Rabbit mAb (A26075) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

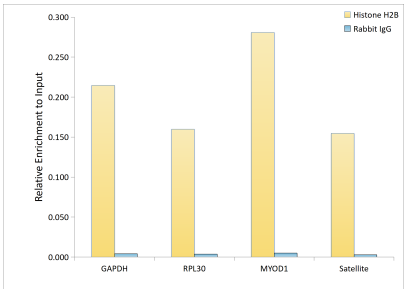


Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Histone H2B Rabbit mAb (A26075) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Histone H2B Rabbit mAb (A26075) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

Validation Data



Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa cells, using 3 µg of Histone H2B Rabbit mAb (A26075) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.