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Histone H2AX Rabbit mAb

Catalog No.: A11412 Recombinant 4 Publications

Basic Information

Observed MW
15kDa

Calculated MW
15kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,ChIP

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

CloneNo number
ARC0590

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-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:200 - 1:800
ChIP	5μg antibody for 5μg-10μg of Chromatin

Immunogen Information

Gene ID
3014

Swiss Prot
P16104

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Histone H2AX (P16104).

Synonyms
H2A.X; H2A/X; H2AFX; Histone H2AX

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

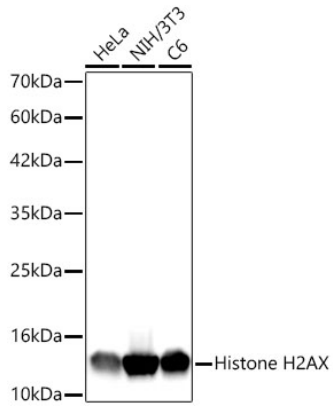
Source
Rabbit

Isotype
IgG

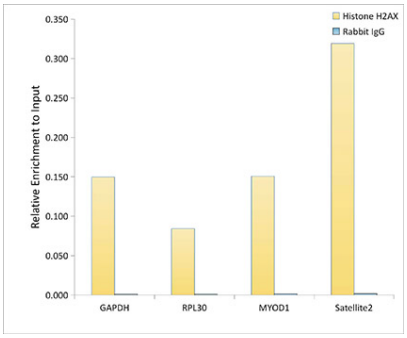
Purification
Affinity purification

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

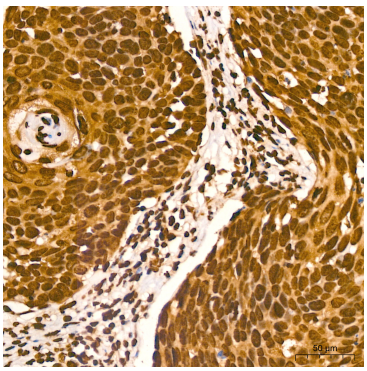
Validation Data



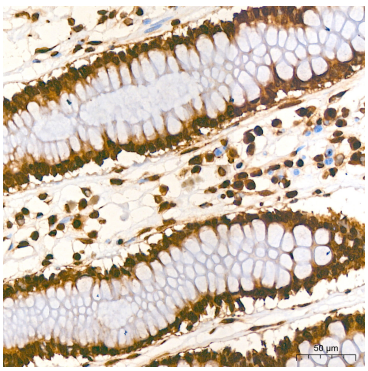
Western blot analysis of various lysates using Histone H2AX Rabbit mAb (A11412) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



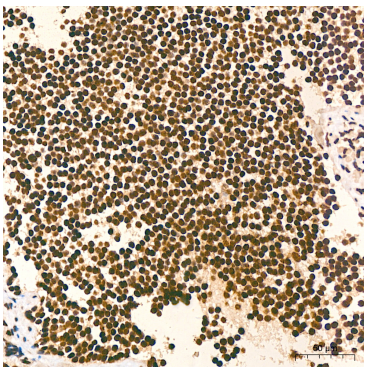
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Histone H2AX Rabbit mAb antibody (A11412) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Immunohistochemistry analysis of Histone H2AX in paraffin-embedded human cervix cancer tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

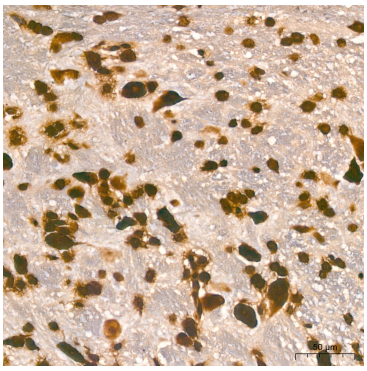


Immunohistochemistry analysis of Histone H2AX in paraffin-embedded human colon tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

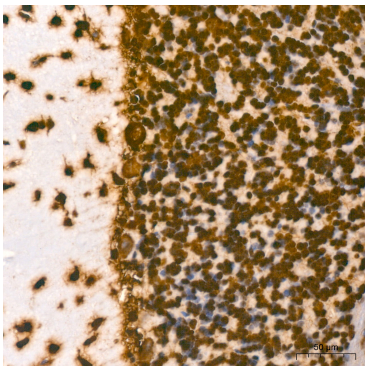


Immunohistochemistry analysis of Histone H2AX in paraffin-embedded human tonsil tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

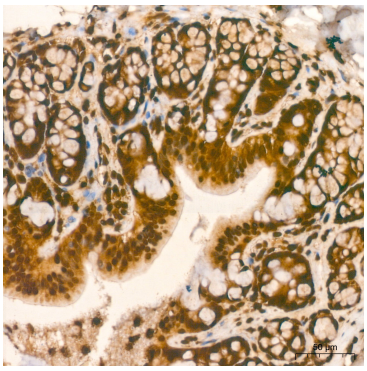
Validation Data



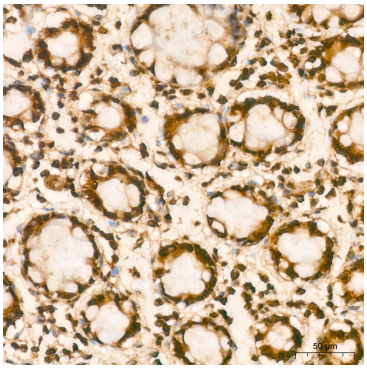
Immunohistochemistry analysis of Histone H2AX in paraffin-embedded mouse brain tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



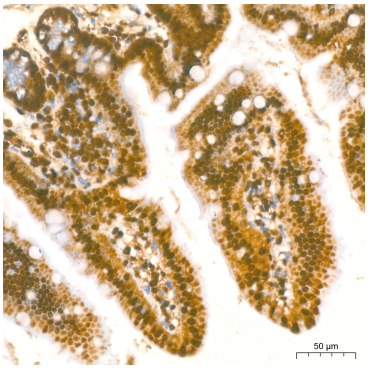
Immunohistochemistry analysis of Histone H2AX in paraffin-embedded rat brain tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Histone H2AX in paraffin-embedded rat colon tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Histone H2AX in paraffin-embedded human colon tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Histone H2AX in paraffin-embedded mouse intestin tissue using Histone H2AX Rabbit mAb (A11412) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.