Ubiquityl-Histone H2A-K119 Rabbit mAb

Catalog No.: A30155

Recombinant

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Basic Information

Observed MW
23 kDa

Calculated MW
14 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, ChIP, ELISA

Cross Reactivity
Human, Mouse, Rat, Monkey

Clone No.
ARC4165

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 H2A family. Transcripts from this gene contain a palindromic termination element.

Recommended Dilutions

WB 1:100000 - 1:600000

IP
0.5 μg - 4 μg antibody for 700 μg - 900 μg extracts of whole cells

IF/ICC 1:2000 - 1:10000

ChIP
2 μg antibody for 10 μg - 15 μg of Chromatin

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
221613

Swiss-Prot
Q96QV6

Immunogen
This information is considered to be commercially sensitive.

Synonyms
H2AA; TH2A; H2AFR; HISTH2AA; HIST1H2AA; bA317E16.2

Contact

400-999-6126

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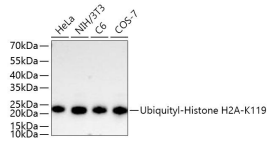
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

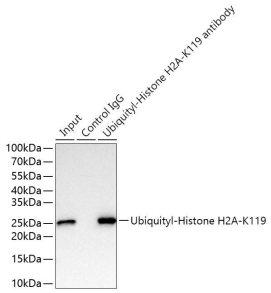
Storage

Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH 7.3.

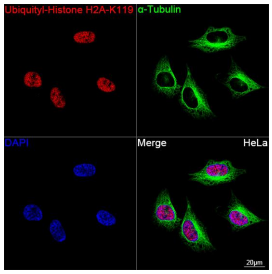
Validation Data



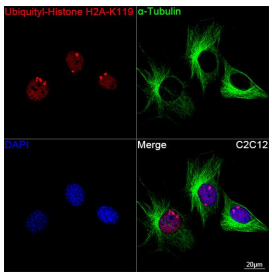
Western blot analysis of various lysates using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155) at 1:300000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



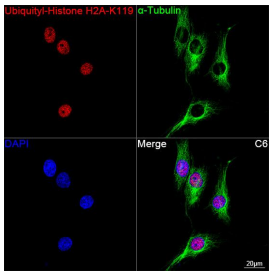
Immunoprecipitation of Ubiquityl-Histone H2A-K119 from 900 µg extracts of HeLa cells was performed using 2 µg of Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155) at a dilution of 1:20000.



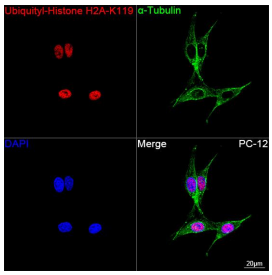
Confocal imaging of HeLa cells using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



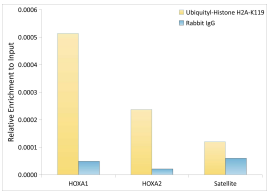
Confocal imaging of C2C12 cells using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of PC-12 cells using Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155, dilution 1:4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells, using 2 µg of Ubiquityl-Histone H2A-K119 Rabbit mAb (A30155) 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.