

# Ubiquityl-Histone H2B-K120 Rabbit mAb

**Catalog No.: A29553**

## Basic Information

**Observed MW**

23 kDa

**Calculated MW**

14 kDa

**Category**

Monoclonal Antibodies

**Applications**

WB, ChIP, ELISA

**Cross Reactivity**

Human, Mouse, Rat, Monkey

**Clone No.**

ARC4237

## 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 H2B family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

## Recommended Dilutions

**WB** 1:3000 - 1:20000**ChIP**

5 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 ( $\geq 1:10,000$ ), a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

**Gene ID**

3018

**Swiss-Prot**

P33778

**Immunogen**

This information is considered to be commercially sensitive.

**Synonyms**

H2B.1; H2B/f; H2BFF; HIST1H2BB

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

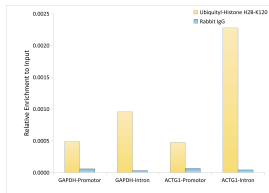
**Purity**

Affinity purification

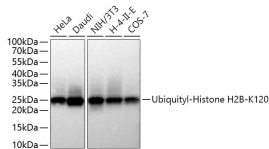
**Storage**

Store at -20°C

## Validation Data



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells, using 5 µg of Ubiquityl-Histone H2B-K120 Rabbit mAb (A29553) 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.



Western blot analysis of various lysates using Ubiquityl-Histone H2B-K120 Rabbit mAb (A29553) at 1:5000 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: 1 s.