

HIST1H2AG (Ab-118) Antibody



PACO60575

Product Information

Size:

50ul

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IP, ChIP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:100-1:1000,
IP:1:200-1:2000

Protein Background:

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

Gene ID:

HIST1H2AG

Uniprot

POC0S8

Synonyms:

Histone H2A type 1 (H2A.1) (Histone H2A/ptl), HIST1H2AG; HIST1H2AI; HIST1H2AK; HIST1H2AL; HIST1H2AM, H2AFP; H2AFC; H2AFD; H2AFI; H2AFN

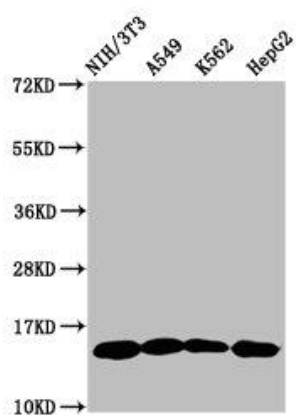
Immunogen:

Peptide sequence around site of Lys (118) derived from Human Histone H2A type 1.

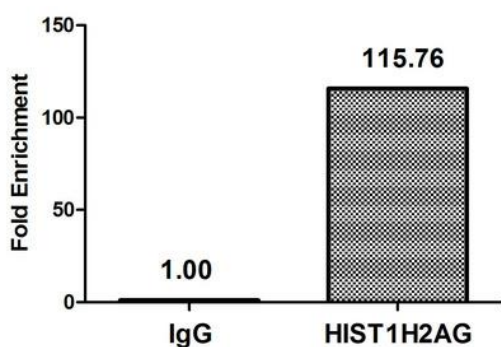
Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, pH 7.4

Product Images

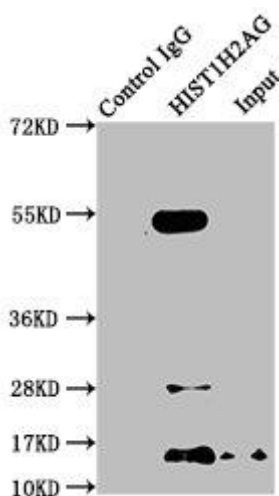


Western Blot. Positive WB detected in: NIH/3T3 whole cell lysate, A549 whole cell lysate, K562 whole cell lysate, HepG2 whole cell lysate. All lanes: HIST1H2AG antibody at 1µg/ml. Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 15 kDa. Observed band size: 15 kDa.



Chromatin Immunoprecipitation HeLa (10^6)

) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H2AG (PACO60575) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the beta -Globin promoter.



Immunoprecipitating HIST1H2AG in NIH/3T3 whole cell lysate. Lane 1: Rabbit control IgG instead of PACO60575 in NIH/3T3 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000). Lane 2: PACO60575 (5µg) + NIH/3T3 whole cell lysate (500µg). Lane 3: NIH/3T3 whole cell lysate (20µg).