

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1051

Specification

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody - Product Information

Application WB, FC, ICC Primary Accession 014929

Reactivity Rat, Human, Mouse

Clonality Monoclonal Isotype Rabbit IgG

Calculated MW Predicted, 50 kDa , observed, 45 kDa KDa

Gene Name HAT:

Aliases HAT1; Histone Acetyltransferase 1; KAT1;

Histone Acetyltransferase Type B Catalytic

Subunit; EC 2.3.1.48

Immunogen A synthesized peptide derived from human

KAT1 / HAT1

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **8520**

Other Names

Histone acetyltransferase type B catalytic subunit, 2.3.1.48, Histone acetyltransferase 1, HAT1, KAT1

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody - Protein Information

Name HAT1

Synonyms KAT1

Function





chromatin replication and acetylation. Since transcription of H4 genes is tightly coupled to S-phase, plays an important role in S-phase entry and progression (PubMed:31278053). Promotes

homologous recombination in DNA repair by facilitating histone turnover and incorporation of

acetylated H3.3 at sites of double-strand breaks (PubMed:<a

 $href="http://www.uniprot.org/citations/23653357" target==_blank">23653357). In addition, acetylates other substrates such as chromatin-related proteins (PubMed:<a$

href="http://www.uniprot.org/citations/32081014" target="_blank">32081014). Also acetylates RSAD2 which mediates the interaction of ubiquitin ligase UBE4A with RSAD2 leading to RSAD2 ubiquitination and subsequent degradation (PubMed:31812350).

Cellular Location

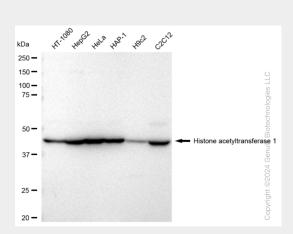
[Isoform A]: Nucleus matrix Mitochondrion

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

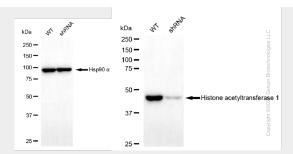
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Histone acetyltransferase 1 Rabbit Monoclonal Antibody - Images

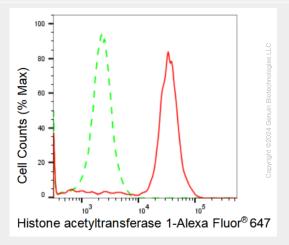


Western blotting analysis using anti-Histone acetyltransferase 1 antibody (Cat#AGI1051). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Histone acetyltransferase 1 antibody (Cat#AGI1051, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

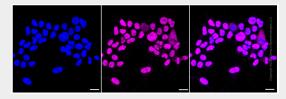




Western blotting analysis using anti-Histone acetyltransferase 1 antibody (Cat#AGI1051). Histone acetyltransferase 1 expression in wild type (WT) and histone acetyltransferase 1 shRNA knockdown (KD) HeLa cells with 30 μg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Histone acetyltransferase 1 antibody (Cat#AGI1051, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Histone acetyltransferase 1 expression in HeLa cells using Histone acetyltransferase 1 antibody (Cat#AGI1051, 1:2,000). Green, isotype control; red, Histone acetyltransferase 1.



Immunocytochemical staining of Hela cells with Histone acetyltransferase 1 antibody (Cat#AGI1051, 1:1,000). Nuclei were stained blue with DAPI; Histone acetyltransferase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.