
Product Name: KD-Validated Histone Acetyltransferase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01773

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 49.5kDa

Antigen Information

Gene Name	HAT1
Alternative Names	HAT1; Histone Acetyltransferase 1; KAT1; Histone Acetyltransferase Type B Catalytic Subunit; EC 2.3.1.48
Gene ID	8520.0
SwissProt ID	O14929
Immunogen	A synthesized peptide derived from human KAT1 / HAT1

Background

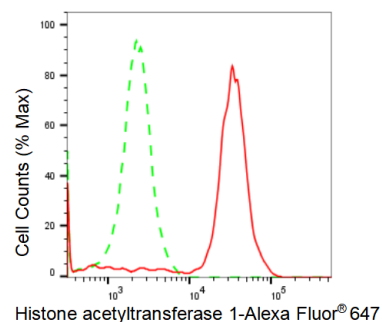
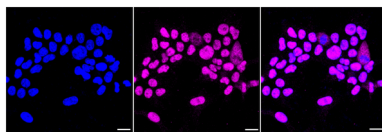
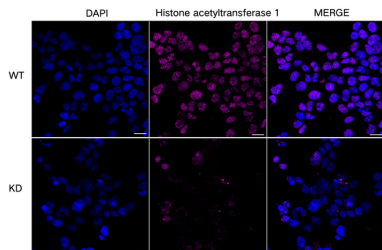
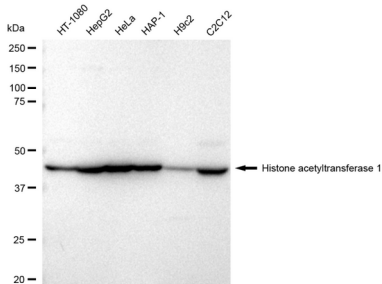
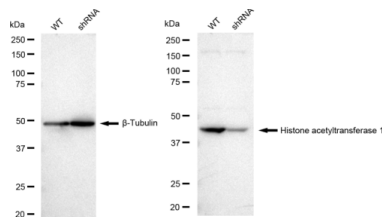
The protein encoded by this gene is a type B histone acetyltransferase (HAT) that is involved in the rapid acetylation of newly synthesized cytoplasmic histones, which are in turn imported into the nucleus for de novo deposition onto nascent DNA chains.

Histone acetylation, particularly of histone H4, plays an important role in replication-dependent chromatin assembly. Specifically, this HAT can acetylate soluble but not nucleosomal histone H4 at lysines 5 and 12, and to a lesser degree, histone H2A at lysine 5. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jun 2009]

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using Histone acetyltransferase 1 antibody (KVA01773). Histone acetyltransferase 1 expression in wild type (WT) and histone acetyltransferase 1 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with Histone acetyltransferase 1 antibody (KVA01773, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using Histone acetyltransferase 1 antibody (KVA01773). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Histone acetyltransferase 1 antibody (KVA01773, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Immunocytochemical staining of HeLa cells using Histone acetyltransferase 1 antibody (KVA01773, 1:1,000). Top panel: wild-type (WT); Bottom panel: Histone acetyltransferase 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Histone acetyltransferase 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μ m.

Immunocytochemical staining of HeLa cells with Histone acetyltransferase 1 antibody (KVA01773, 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.

Flow cytometric analysis of Histone acetyltransferase 1 expression in HeLa cells using Histone acetyltransferase 1 antibody (KVA01773, 1:2,000). Green, isotype control; red, Histone acetyltransferase 1.

