

Anti-HAT1 Antibody
Rabbit polyclonal antibody to HAT1
Catalog # AP59745

Specification

Anti-HAT1 Antibody - Product Information

Application	WB
Primary Accession	O14929
Other Accession	Q8BY71
Reactivity	Human, Mouse, Rat, Monkey, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49541

Anti-HAT1 Antibody - Additional Information

Gene ID 8520

Other Names

KAT1; Histone acetyltransferase type B catalytic subunit; Histone acetyltransferase 1

Target/Specificity

Recognizes endogenous levels of HAT1 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-HAT1 Antibody - Protein Information

Name HAT1

Synonyms KAT1

Function

Histone acetyltransferase that plays a role in different biological processes including cell cycle progression, glucose metabolism, histone production or DNA damage repair (PubMed: [20953179](http://www.uniprot.org/citations/20953179), PubMed: [23653357](http://www.uniprot.org/citations/23653357), PubMed: [31278053](http://www.uniprot.org/citations/31278053), PubMed: [32081014](http://www.uniprot.org/citations/32081014)). Coordinates

histone production and acetylation via H4 promoter binding (PubMed:31278053). Acetylates histone H4 at 'Lys-5' (H4K5ac) and 'Lys-12' (H4K12ac) and, to a lesser extent, histone H2A at 'Lys-5' (H2AK5ac) (PubMed:11585814, PubMed:22615379). Drives H4 production by chromatin binding to support 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:23653357). In addition, acetylates other substrates such as chromatin-related proteins (PubMed:32081014). Acetylates also RSAD2 which mediates the interaction of ubiquitin ligase UBE4A with RSAD2 leading to RSAD2 ubiquitination and subsequent degradation (PubMed:31812350).

Cellular Location

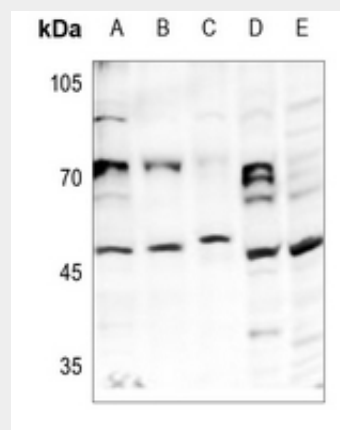
[Isoform A]: Nucleus matrix Mitochondrion

Anti-HAT1 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 Cytometry](#)
- [Cell Culture](#)

Anti-HAT1 Antibody - Images



Western blot analysis of HAT1 expression in EC9706 (A), SGC7901 (B), HCT116 (C), CT26 (D), PC12 (E) whole cell lysates.

Anti-HAT1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HAT1. The exact sequence is proprietary.