

KAT1 Rabbit mAb
Catalog # AP78011**Specification**

KAT1 Rabbit mAb - Product Information

Application	WB
Primary Accession	O14929
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	49541

KAT1 Rabbit mAb - Additional Information

Gene ID 8520

Other Names

HAT1

Dilution

WB~~1/500-1/1000

Format

Liquid

KAT1 Rabbit mAb - 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/11585814), PubMed: [22615379](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

KAT1 Rabbit mAb - 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](#)

KAT1 Rabbit mAb - Images

