

**KAT1 Rabbit mAb**  
Catalog # AP74888**Specification**

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**KAT1 Rabbit mAb - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O14929</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>49541</b>

**KAT1 Rabbit mAb - Additional Information**

Gene ID 8520

**Other Names**

HAT1

**Dilution**

WB~~1/500-1/1000

IHC~~1/50-1/100

**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:<a href="http://www.uniprot.org/citations/23653357" target="\_blank">23653357</a>). In addition, acetylates other substrates such as chromatin-related proteins (PubMed:<a href="http://www.uniprot.org/citations/32081014" target="\_blank">32081014</a>). Acetylates also RSAD2 which mediates the interaction of ubiquitin ligase UBE4A with RSAD2 leading to RSAD2 ubiquitination and subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/31812350" target="\_blank">31812350</a>).

#### 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



