

**Anti-KAT1 / HAT1 Rabbit Monoclonal Antibody**  
Catalog # ABO15548

**Specification**

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**Anti-KAT1 / HAT1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">O14929</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-KAT1 / HAT1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-KAT1 / HAT1 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

**Calculated MW**

45 kDa KDa

**Application Details**

WB 1:500-1:1000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:100

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human KAT1 / HAT1

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-KAT1 / HAT1 Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/20953179" target="\_blank">20953179</a>, PubMed:<a href="http://www.uniprot.org/citations/23653357" target="\_blank">23653357</a>, PubMed:<a href="http://www.uniprot.org/citations/31278053" target="\_blank">31278053</a>, PubMed:<a href="http://www.uniprot.org/citations/32081014" target="\_blank">32081014</a>). Coordinates histone production and acetylation via H4 promoter binding (PubMed:<a href="http://www.uniprot.org/citations/31278053" target="\_blank">31278053</a>). Acetylates histone H4 at 'Lys-5' (H4K5ac) and 'Lys-12' (H4K12ac) and, to a lesser extent, histone H2A at 'Lys-5' (H2AK5ac) (PubMed:<a href="http://www.uniprot.org/citations/11585814" target="\_blank">11585814</a>, PubMed:<a href="http://www.uniprot.org/citations/22615379" target="\_blank">22615379</a>). 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:<a href="http://www.uniprot.org/citations/31278053" target="\_blank">31278053</a>). 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

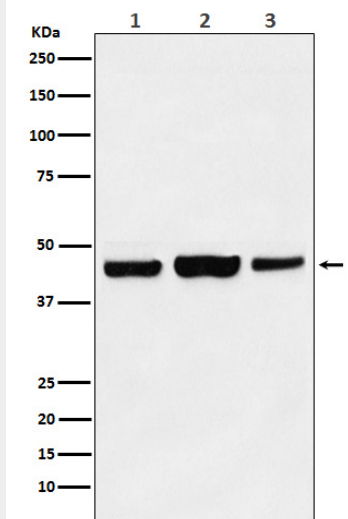
## Anti-KAT1 / HAT1 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-KAT1 / HAT1 Rabbit Monoclonal Antibody - Images





Western blot analysis of KAT1 / HAT1 expression in (1) MCF7 cell lysate; (2) NIH/3T3 cell lysate; (3) C6 cell lysate.