

## HBO1 Rabbit pAb

CatalogNo: YT2101

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IF, ELISA

#### MW

- 75kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IF 1:200-1:1000**

**ELISA 1:20000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human MYST2. AA range:131-180

**Specificity** HBO1 Polyclonal Antibody detects endogenous levels of HBO1 protein.

### Target Information

**Gene name** KAT7

**Protein Name** Histone acetyltransferase KAT7

Organism	Gene ID	UniProt ID
Human	<a href="#">11143</a> ;	<a href="#">O95251</a> ;
Mouse	<a href="#">217127</a> ;	<a href="#">Q5SVQ0</a> ;
Rat	<a href="#">303470</a> ;	<a href="#">Q810T5</a> ;

**Cellular Localization**

Nucleus . Chromosome . Chromosome, centromere . Cytoplasm, cytosol . Associates with replication origins specifically during the G1 phase of the cell cycle (PubMed:18832067, PubMed:20129055). Localizes to transcription start sites (PubMed:21753189, PubMed:24065767). Localizes to ultraviolet-induced DNA damage sites following phosphorylation by ATR (PubMed:28719581). Localizes to centromeres in G1 phase (PubMed:27270040). .

**Tissue specificity** Ubiquitously expressed, with highest levels in testis.

**Function**

Catalytic activity:Acetyl-CoA + histone = CoA + acetylhistone.,Domain:The C2HC-type zinc finger is required for interaction with MCM2 and ORC1L.,Domain:The N-terminus is involved in transcriptional repression, while the C-terminus mediates AR-interaction.,Function:Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Specifically represses AR-mediated transcription.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the MYST (SAS/MOZ) family.,similarity:Contains 1 C2HC-type zinc finger.,subunit:Component of the HBO1 complex composed at least of ING4 or ING5, MYTS2/HBO1, EAF6, and one of PHF15, PHF16 and PHF17. Interacts with MCM2 and ORC1L. Interacts with the androgen receptor (AR) in the presence of dihydrotestosterone.,tissue specificity:Ubiquitously expressed, with highest levels in testis.,

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## | Validation Data

## | Contact information

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**HBO1 Rabbit pAb**