

## HBO1 Rabbit pAb

CatalogNo: YT2101

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IF, ELISA

#### MW

- 75kD (Observed)

#### Isotype

- IgG

### | Recommended Dilution Ratios

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

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

**ELISA 1:20000**

**Not yet tested in other applications.**

### | 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.

### | Basic Information

#### Clonality

Polyclonal

### | Immunogen Information

#### Immunogen

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

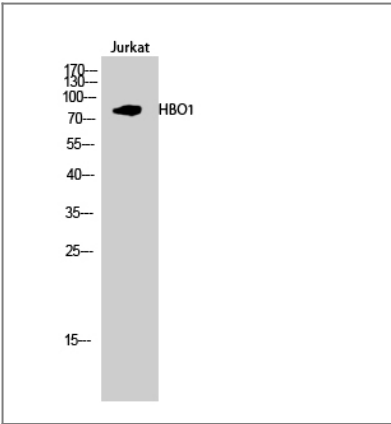
#### Specificity

HBO1 Polyclonal Antibody detects endogenous levels of HBO1 protein.

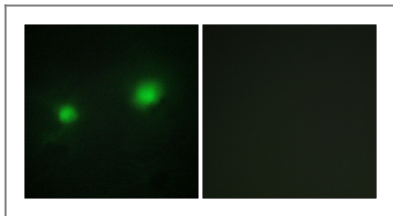
### | Target Information

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.,		

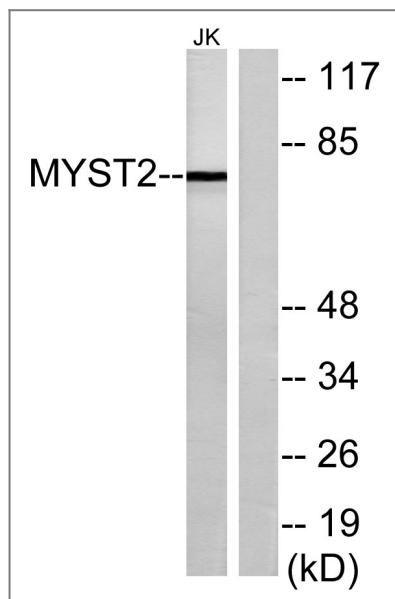
| Validation Data



Western Blot analysis of Jurkat cells using HBO1 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunofluorescence analysis of HUVEC cells, using MYST2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using MYST2 Antibody. The lane on the right is blocked with the synthesized peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**HBO1 Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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