

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 | 11143 ; | O95251 ; |
| Mouse | 217127 ; | Q5SVQ0 ; |
| Rat | 303470 ; | Q810T5 ; |

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

| Contact information

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