



HBO1 Monoclonal Antibody

Catalog No	YP-mAb-01754
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	KAT7
Protein Name	Histone acetyltransferase KAT7
Immunogen	The antiserum was produced against synthesized peptide derived from human MYST2. AA range:131-180
Specificity	HBO1 Monoclonal Antibody detects endogenous levels of HBO1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KAT7; HBO1; HBOa; MYST2; Histone acetyltransferase KAT7; Histone acetyltransferase binding to ORC1; Lysine acetyltransferase 7; MOZ; YBF2/SAS3, SAS2 and TIP60 protein 2; MYST-2
Observed Band	75kD
Cell Pathway	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 an

Background

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.,

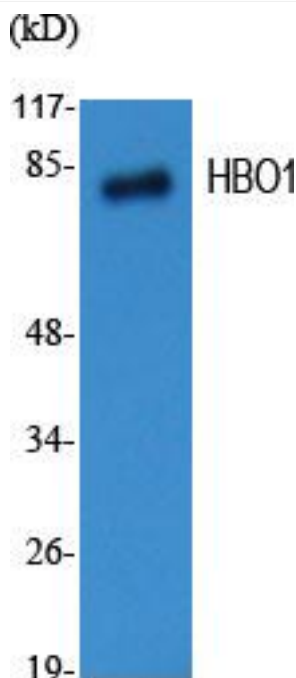
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using HBO1 Monoclonal Antibody