

Summary

Production Name	HBO1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB,
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	KAT7
Alternative Names	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
Gene ID	11143.0
SwissProt ID	O95251. The antiserum was produced against synthesized peptide derived from human MYST2. AA range: 131-180

Application

Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
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Molecular Weight 75kD

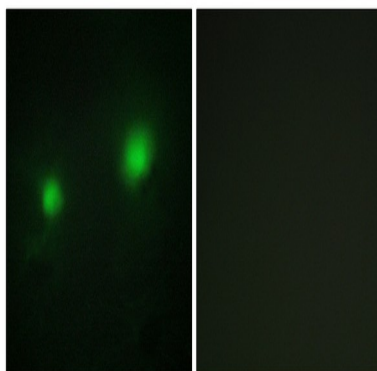
Background

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.,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.,

Research Area

Protein_Acetylation

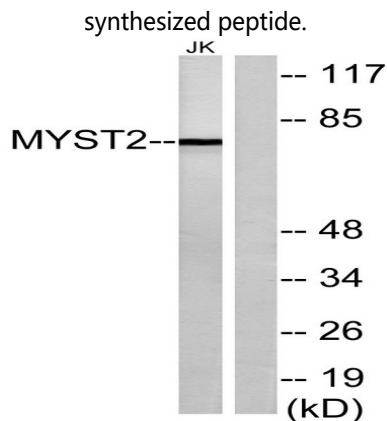
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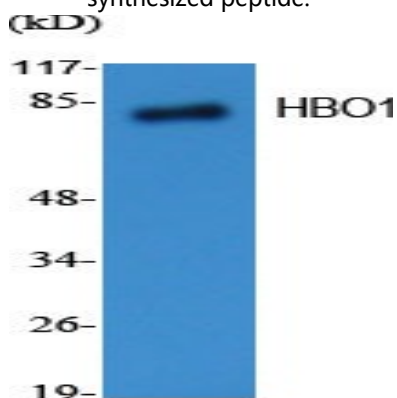
Product Name: HBO1 Rabbit Polyclonal Antibody
Catalog #: APRab11917



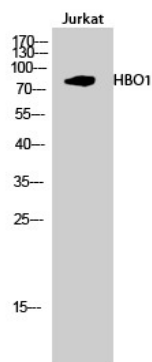
Immunofluorescence analysis of HUVEC cells, using MYST2 Antibody. The picture on the right is blocked with the synthesized peptide.



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



Western Blot analysis of various 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) .



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) .

Note

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