ELK Biotechnology

HBO1 rabbit pAb

Cat No.:ES2494

For research use only

Overview

Product Name	HBO1 rabbit pAb
Host species	Rabbit
Applications	WB;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
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.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Histone acetyltransferase KAT7
Gene Name	KAT7
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). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	75kD

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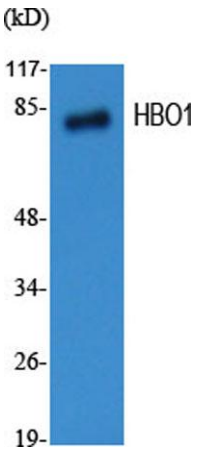
Human Gene ID	11143
Human Swiss-Prot Number	O95251
Alternative Names	KAT7; HBO1; HBOa; MYST2; Histone acetyltransferase KAT7; Histone acetyltransferase binding to ORC1; Lysine acetyltransferase 7; MOZ; YBF2/SAS3, SAS2 and TIP60 protein 2; MYST-2
Background	catalytic activity:Acetyl-CoA + histone = CoA + 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.,



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).

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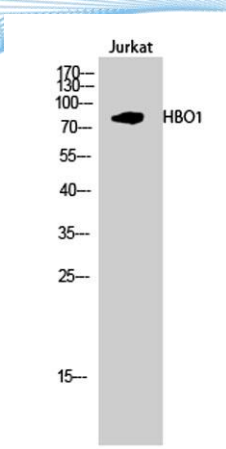
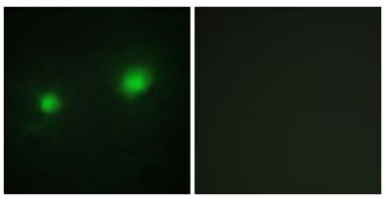
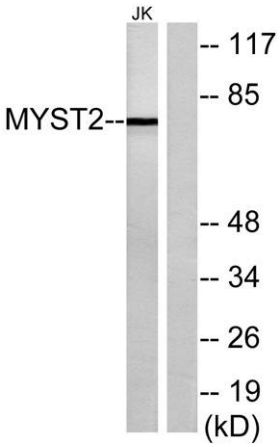


Western Blot analysis of Jurkat cells using HBO1 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



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.

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