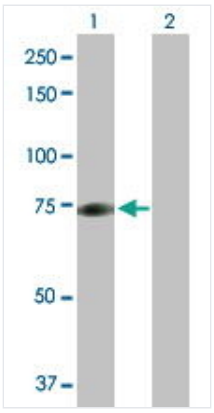
KAT7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KAT7, Polyclonal Antibody
Full Product Name	KAT7 (Histone Acetyltransferase KAT7, Histone Acetyltransferase Binding to ORC1, Lysine Acetyltransferase 7, MOZ, YBF2/SAS3, SAS2 and TIP60 P
Product Gene Name	anti-KAT7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MYST2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	55,135 Da
OMIM	609880
3D Structure	ModBase 3D Structure for O95251
Immunogen	Full length human MYST2, aa1-611 (NP_008998.1).
Immunogen Sequence	MPRRKRNAGSSSDGTEDSDFSTDLEHTDSSESDGTSRRSARVTRSSARLSQSSQDSSPVRNLQSFGTEEPAYSTRRVTRSQQQPTPVTPKKYPLRQTP
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-KAT7 antibody	Antibodies; Enzymes; Acetyltransferase
Applications Tested/Suitable for anti-KAT7 antibody	Western Blot (WB)
Application Notes for anti-KAT7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-KAT7 antibody	Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible fo
Other Notes	Small volumes of anti-KAT7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa

Searchable Terms for KAT7 purchase	MBS6386414 is an antibody targeting KAT7. Also known as KAT7 (Histone Acetyltransferase KAT7, Histone Acetyltransferase Binding to ORC1, Lysin



Western Blot (WB) of anti-KAT7 antibody
Western Blot analysis of MYST2 expression in transfected 293T cell line by MYST2 polyclonal antibody. Lane 1: MYST2 transfected lysate (70.6kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KAT7. It may not necessarily be applicable to this product.

NCBI GI #	312596868
NCBI GeneID	11143
NCBI Accession #	NP_008998.1
UniProt Primary Accession #	O95251
UniProt Secondary Accession #	B3KN74; B4DF85; B4DFB4; B4DFE0; B4DGY4; E7ER15; G5E9K7
UniProt Related Accession #	O95251
GenBank Nucleotide #	NM_007067.3
NCBI Official Full Name	Homo sapiens K(lysine) acetyltransferase 7 (KAT7), transcript variant 1, mRNA
NCBI Official Synonym Full Names	K(lysine) acetyltransferase 7
NCBI Official Symbol	KAT7
NCBI Official Synonym Symbols	HBO1; HBOA; MYST2; ZC2HC7
UniProt Protein Name	Histone acetyltransferase KAT7
UniProt Synonym Protein Names	Histone acetyltransferase binding to ORC1; Lysine acetyltransferase 7; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 2
Protein Family	Histone acetyltransferase
UniProt Gene Name	KAT7
UniProt Synonym Gene Names	HBO1; HBOa; MYST2; MYST-2
UniProt Entry Name	KAT7_HUMAN
NCBI Protein Information	histone acetyltransferase KAT7; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 2; MYST histone acetyltransferase 2; MYST-2; histone acetyltransferase MYST2; histone acetyltransferase binding to ORC1; lysine acetyltransferase 7

UniProt Comments for KAT7	MYST2: a histone acetyltransferase that participates in DNA replication and the loading of the minichromosome maintenance (Mcm) complex onto chromatin. Is required for origin recognition complex (Orc) formation and replication licensing, and is responsible for much of the acetylation of histone H4. Interacts with MCM2 and ORC1L. Phosphorylated by Cdc2 during mitosis, creating a site that recruits Plk1, which in turn phosphorylates MYST2. Its phosphorylation by Plk1 during mitosis may be required for the formation of the prereplicative complex. Interacts with the androgen receptor (AR) in the presence of dihydrotestosterone. Specifically represses AR-mediated transcription. Protein type: EC 2.3.1.48; Transcription, coactivator/corepressor; Acetyltransferase; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 17q21.32 Cellular Component: nucleoplasm; cytoplasm; nucleolus; histone acetyltransferase complex Molecular Function: protein binding; histone acetyltransferase activity; zinc ion binding; transcription factor activity Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of transcription, DNA-dependent; DNA replication
Research Articles on KAT7	**1.** Increase in the number of cells with cytoplasmic JADE1S correlated with activation of tubular cell proliferation and inversely correlated with the number of cells with nuclear JADE1S, supporting role of HBO1-JADE1 shuttling during organ regeneration.
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