TIP60 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TIP60, Monoclonal Antibody
Full Product Name	TIP60 Mouse mAb
Product Gene Name	anti-TIP60 antibody
Product Synonym Names	TIP60 (HTATIP)
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	3F9
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% Sodium Azide.
Purity/Purification	Ascitic Fluid
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	60kDa
OMIM	601409
3D Structure	ModBase 3D Structure for Q92993
Immunogen	Purified recombinant fragment of human TIP60 expressed in E. Coli.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TIP60 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-TIP60 antibody	WB: 1:500-1:2000 IHC: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-TIP60 antibody	HTATIP (HIV-1 Tat interacting protein TIP60, about 60kDa) belongs to the MYST family of histone acetyl transferases (HATs) and was originally isolated as an HIV-1 TAT-interactive protein. HATs play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. In addition to the growing number of post-translational histone modifications regulating chromatin structure, cells can also exchange canonical histones with variant histones that can directly or indirectly modulate chromatin structure. There are five major variants of histone H2A: canonical H2A (most abundant), H2A.X, MacroH2A, H2ABbd and H2A.Z. Histone H2A.Z, the most conserved variant across species, functions as both a positive and negative regulator of transcription and is important for chromosome stability. Several homologous protein complexes, such as SWR-C, TIP60 and SRCAP (mammals), have been shown to catalyze the ATP-dependent exchange of H2A.Z for H2A in the nucleosome. This protein is a histone acetylase that has a role in DNA repair and apoptosis and is thought to play an important role in signal transduction.
Other Notes	Small volumes of anti-TIP60 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TIP60 purchase	MBS8538362 is an antibody targeting TIP60. Also known as TIP60 Mouse mAb. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIP60. It may not necessarily be applicable to this product.

NCBI GI #	332205931
NCBI GeneID	10524
NCBI Accession #	NP_001193762.1
UniProt Primary Accession #	Q92993
UniProt Related Accession #	Q92993
GenBank Nucleotide #	NP_001193762.1
NCBI Official Full Name	histone acetyltransferase KAT5 isoform 4
NCBI Official Synonym Full Names	lysine acetyltransferase 5
NCBI Official Symbol	KAT5
NCBI Official Synonym Symbols	TIP; ESA1; PLIP; TIP60; cPLA2; HTATIP; ZC2HC5; HTATIP1
UniProt Protein Name	Histone acetyltransferase KAT5
UniProt Synonym Protein Names	60 kDa Tat-interactive protein; Tip60; Histone acetyltransferase HTATIP; HIV-1 Tat interactive protein; Lysine acetyltransferase 5; cPLA(2)-interacting protein
Protein Family	Histone acetyltransferase
UniProt Gene Name	KAT5
UniProt Synonym Gene Names	HTATIP; TIP60; Tip60
UniProt Entry Name	KAT5_HUMAN
NCBI Protein Information	histone acetyltransferase KAT5
NCBI Summary for TIP60	The protein encoded by this gene belongs to the MYST family of histone acetyl transferases (HATs) and was originally isolated as an HIV-1 TAT-interactive protein. HATs play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. This protein is a histone acetylase that has a role in DNA repair and apoptosis and is thought to play an important role in signal transduction. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]
UniProt Comments for TIP60	Tip60: a histone acetyl transferase (HAT) of the MYST family. Originally isolated as an HIV-1 TAT-interactive protein. Plays an important role in regulating chromatin remodeling, transcription and other nuclear processes by acetylating nuclear proteins. Plays a role in DNA repair and apoptosis. Three splice variants have been described. Protein type: Nucleolus; Nuclear receptor co-regulator; EC 2.3.1.48; Acetyltransferase Chromosomal Location of Human Ortholog: 11q13 Cellular Component: nucleoplasm; transcription factor complex; NuA4 histone acetyltransferase complex; perinuclear region of cytoplasm; nucleolus; cytosol; nucleus Molecular Function: protein binding; histone acetyltransferase activity; androgen receptor binding; metal ion binding; transcription coactivator activity; protein complex binding Biological Process: proteasomal ubiquitin-dependent protein catabolic process; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; viral reproduction; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; negative regulation of interleukin-2 production; DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator; double-strand break repair; regulation of growth; androgen receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; response to ionizing radiation; histone acetylation; negative regulation of transcription, DNA-dependent

Research Articles on TIP60	**1.** A unique mechanism of Endogenous retroviral elements regulation in cancer cells mediated by TIP60 and BRD4 through regulation of histone H3 K9 trimethylation.
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