KAT5 Peptide-Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	KAT5, Blocking Peptide
Full Product Name	KAT5 Peptide-middle region
Product Gene Name	KAT5 blocking peptide
Product Synonym Names	PLIP; CPLA2; Tip55; Tip60; Htatip; Htatip1; AI839539
Sequence	HYIDFNKRLD EWVTHERLDL KKIQFPKKEA KTPTKNGLPG SRPGSPEREV
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	KAT5 peptide (MBS3249445) is used for blocking the activity of KAT5 antibody (MBS3249771)
Molecular Weight	56kDa
Quality Control	The peptide is characterized by mass spectroscopy
Protein Size	513 amino acids
Related Product Information for KAT5 blocking peptide	This is a synthetic peptide designed for use in combination with anti-KAT5 Antibody. It may block above mentioned antibody from binding to its target protein in western blot and/or immunohistochecmistry under proper experimental settings. Description of Target: Catalytic subunit of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Directly acetylates and activates ATM. Relieves NR1D2-mediated inhibition of APOC3 expression by acetylating NR1D2. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome. Promotes FOXP3 acetylation and positively regulates its transcriptional repressor activity. Acetylates RAN at 'Lys-134'.
Other Notes	Small volumes of KAT5 blocking peptide 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 KAT5 purchase	MBS3249445 is a blocking peptide targeting KAT5. Also known as KAT5 Peptide-middle region. Reactive in Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KAT5. It may not necessarily be applicable to this product.

NCBI GeneID	81601
NCBI Accession #	NM_001199247.1
UniProt Primary Accession #	Q8CHK4
UniProt Related Accession #	NP_001186176.1

UniProt Protein Name	Histone acetyltransferase KAT5
UniProt Synonym Protein Names	60 kDa Tat-interactive protein; Tip60; Histone acetyltransferase HTATIP; Lysine acetyltransferase 5
Protein Family	3-ketoacyl-CoA thiolase
UniProt Gene Name	Kat5
UniProt Synonym Gene Names	Htatip; Tip60; Tip60
UniProt Entry Name	KAT5_MOUSE
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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