

Product datasheet

Recombinant Human KAT5 / Tip60 protein ab161037

1 Image

Description

Product name	Recombinant Human KAT5 / Tip60 protein	
Expression system	Wheat germ	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MAEVGEIIEGCRLPVLRNQNEDWPLAEILSVKDISGRK LFYVHYDF NKRLDEWVTHEERLDLKKIQFPKKEAKTPTKNGLPGSRPG SPEREVKKRVE VVSPATPVPSETAPASVFPQNGAARRAVAAQPGRKRKS NCLGTDEDSQDS SDGIPSAPRMTGSLVSDRSHDDIVTRMKNIECIELGRHRLK PWYFSPYPQ ELTTLPLVLYLCEFLKYGRSLKCLQRHLTKCDLRHPPGNEI YRKGTISFF EIDGRKNKSYSQNLCLLAKCFLDHKTLTYDTPFLFYVMTE YDCKGFHIV GYFSKEKESTEDYNVACILTPPYQRRGYGKLLIEFSYELS KVEGKTGTP EKPLSDLGLLSYRSYWSQTILEILMGLKSESGERPQITINEIS EITSIKK EDVISTLQYLNLYYKQYILTLSEDIVDGHARAMLKRLRLRI DSKCLHF TPKDWSKRGKW	
Amino acids	1 to 461	
Tags	GST tag N-Terminus	

Specifications

Our **Abpromise guarantee** covers the use of **ab161037** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA
	Western blot

Form Liquid

Additional notes

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

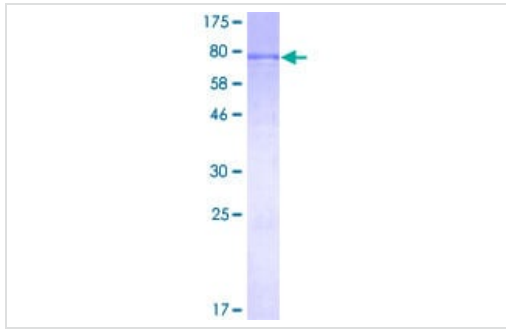
Function Catalytic subunit of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome-DNA interactions and promote interaction of the modified 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. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Directly acetylates and activates ATM. In case of HIV-1 infection, interaction with the viral Tat protein leads to KAT5 polyubiquitination and targets it to degradation.

Sequence similarities Belongs to the MYST (SAS/MOZ) family.
Contains 1 C2HC-type zinc finger.

Post-translational modifications Sumoylated by UBE2I at Lys-430 and Lys-451, leading to increase of its histone acetyltransferase activity in UV-induced DNA damage response, as well as its translocation to nuclear bodies. Phosphorylated on Ser-86 and Ser-90; enhanced during G2/M phase. Phosphorylated form has a higher activity.
Ubiquitinated by MDM2, leading to its proteasome-dependent degradation.

Cellular localization Nucleus > nucleolus. Cytoplasm > perinuclear region. Upon stimulation with EDN1, it is exported from the nucleus to the perinuclear region and UV irradiation induces translocation into punctuate subnuclear structures named nuclear bodies.

Images



ab161037 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human KAT5 / Tip60 protein (ab161037)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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