

Product datasheet

Recombinant Human KAT5 / Tip60 protein ab161037

1 Image

Overview

Product name	Recombinant Human KAT5 / Tip60 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human

Sequence	<p>MAEVGEIIEGCRLPVLRNQNEDWPLAEILSVKDIS GRKLFYVHYIDF NKRLDEWVTHEERLDLKKIQFPKKEAKTPTKNGLPGSR PGSPEREVKRKVE VVSPATPVPSETAPASVFPQNGAARRAVAAQPGRKR KSNCLGTDEDSQDS SDGIPSAPRMTGSLVSDRSHDDIVTRMKNIECIELGRH RLKPWYFSPYPQ ELTTLPVLYLCEFCLKYGRSLKCLQRHLTKCDLRHPPG NEIYRKGTISFF EIDGRKNKSYSQNLCLLAKCFLDHKTLTYDTPFLFYV MTEYDCKGFHIV GYFSKEKESTEDYNVACILTLPYQRRGYGKLLIEFSYE LSKVEGKTGTP EKPLSDLGLLSYRSYWSQTILEILMGLKSESGERPQITIN EISEITSIKK EDVISTLQYLNLYYKQYILTLSEDVDGHERAMLKRL RIDSKCLHF TPKDWSKRGKW</p>
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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	Protein concentration is above or equal to 0.05 mg/ml.

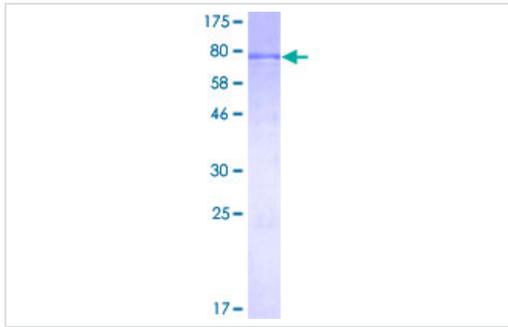
Preparation and Storage

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
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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)

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