

## Product datasheet

# Anti-Histone acetyltransferase MYST3 antibody ab110945

1 Image

### Overview

<b>Product name</b>	Anti-Histone acetyltransferase MYST3 antibody
<b>Description</b>	Goat polyclonal to Histone acetyltransferase MYST3
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-P <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide: C-EKIKDKEETELD , corresponding to internal sequence amino acids 1361-1372 of Human KAT6A/ HAT3 (NP_006757.2).  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human Adrenal tissue.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab110945** in the following tested applications.

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

Application	Abreviews	Notes
ELISA		1/16000.
IHC-P		Use a concentration of 3.75 µg/ml.

**Application notes** Is unsuitable for WB.

## Target

**Function** Histone acetyltransferase that acetylates lysine residues in histone H3 and histone H4 (in vitro). Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity. May act as a transcriptional coactivator for RUNX1 and RUNX2.

**Involvement in disease** Note=Chromosomal aberrations involving MYST3 may be a cause of acute myeloid leukemias. Translocation t(8;16)(p11;p13) with CREBBP; translocation t(8;22)(p11;q13) with EP300. MYST3-CREBBP may induce leukemia by inhibiting RUNX1-mediated transcription. Inversion inv(8)(p11;q13) generates the MYST3-NCOA2 oncogene, which consists of the N-terminus part of MYST3/MOZ and the C-terminus part of NCOA2/TIF2. MYST3-NCOA2 binds to CREBBP and disrupts its function in transcription activation.  
Note=A chromosomal aberration involving MYST3 is a cause of therapy-related myelodysplastic syndrome. Translocation t(2;8)(p23;p11.2) with ASXL2 generates a MYST3-ASXL2 fusion protein.

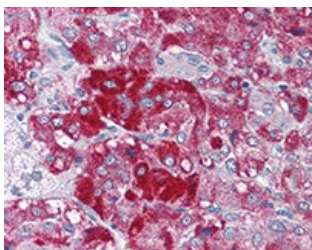
**Sequence similarities** Belongs to the MYST (SAS/MOZ) family.  
Contains 1 C2HC-type zinc finger.  
Contains 1 H15 (linker histone H1/H5 globular) domain.  
Contains 2 PHD-type zinc fingers.

**Domain** The N-terminus is involved in transcriptional activation while the C-terminus is involved in transcriptional repression.

**Post-translational modifications** Autoacetylated.  
Phosphorylated upon DNA damage, probably by ATM or ATR.

**Cellular localization** Nucleus. Partially concentrated in subnuclear foci distinct from PML bodies, and excluded from the nucleoli.

## Images



ab110945, at 3.75µg/ml, staining KAT6A / HAT3 in formalin-fixed, paraffin-embedded Human Adrenal tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - KAT6A / HAT3 antibody (ab110945)

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