abcam

Product datasheet

Anti-Histone acetyltransferase MYST3 antibody ab110945

1 Image

Overview

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

Properties

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

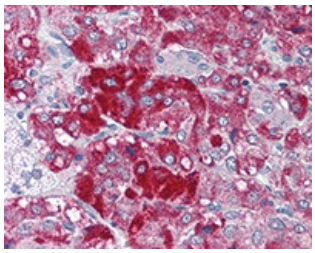
Sequence similarities Belongs to the MYST (SAS/MOZ) family.
Contains 1 C2HC-type zinc finger.
Contains 1 H15 (linker histone H1/H5 globular) domain.
Contains 2 PHD-type zinc fingers.

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



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

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

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