abcam

Product datasheet

Anti-SET/TAF-I antibody ab92872

★★★★★ 3 Abreviews 1 References 5 Images

Overview

Product name	Anti-SET/TAF-I antibody
Description	Rabbit polyclonal to SET/TAF-I
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide corresponding to Human SET/TAF-I aa 125-175. Sequence: VTEFEDIKSG YRIDFYFDEN PYFENKVLSK EFHLNESGDP SSKSTEIKWK S Database link: **NP_001116293.1** Run BLAST with Run BLAST with
Positive control	WB: HeLa, 293T and NIH3T3 whole cell lysate, Lysate of the soluble fraction of HeLa or U20S cells. IHC-P: Human ovarian carcinoma and Mouse renal cell carcinoma tissue. IP: HeLa whole cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: Tris buffered saline, 0.1% BSA

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92872 in the following tested applications.

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

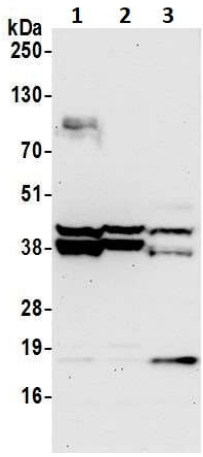
Application	Abreviews	Notes
WB	★★★★★ (3)	Use a concentration of 0.1 µg/ml. Predicted molecular weight: 33 kDa.
IP		Use at 3-5 µg/mg of lysate.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Multitasking protein, involved in apoptosis, transcription, nucleosome assembly and histone binding. Isoform 2 anti-apoptotic activity is mediated by inhibition of the GZMA-activated DNase, NME1. In the course of cytotoxic T-lymphocyte (CTL)-induced apoptosis, GZMA cleaves SET, disrupting its binding to NME1 and releasing NME1 inhibition. Isoform 1 and isoform 2 are potent inhibitors of protein phosphatase 2A. Isoform 1 and isoform 2 inhibit EP300/CREBBP and PCAF-mediated acetylation of histones (HAT) and nucleosomes, most probably by masking the accessibility of lysines of histones to the acetylases. The predominant target for inhibition is histone H4. HAT inhibition leads to silencing of HAT-dependent transcription and prevents active demethylation of DNA. Both isoforms stimulate DNA replication of the adenovirus genome complexed with viral core proteins; however, isoform 2 specific activity is higher.
Tissue specificity	Widely expressed. Low levels in quiescent cells during serum starvation, contact inhibition or differentiation. Highly expressed in Wilms' tumor.
Involvement in disease	Note=A chromosomal aberration involving SET is found in some cases of acute undifferentiated leukemia (AUL). Translocation t(6;9)(q21;q34.1) with NUP214/CAN.
Sequence similarities	Belongs to the nucleosome assembly protein (NAP) family.
Domain	The C-terminal acidic domain mediates the inhibition of histone acetyltransferases and is required for the DNA replication stimulatory activity.
Post-translational modifications	Isoform 2 is phosphorylated on Ser-15 and Thr-23. Isoform 2 is acetylated on Lys-11. Some glutamate residues are glycylated by TTLL8. This modification occurs exclusively on glutamate residues and results in a glycine chain on the gamma-carboxyl group. N-terminus of isoform 1 is methylated by METTL11A/NTM1. Mainly trimethylated.
Cellular localization	Cytoplasm > cytosol. Endoplasmic reticulum. Nucleus > nucleoplasm. In the cytoplasm, found both in the cytosol and associated with the endoplasmic reticulum. Following CTL attack, moves rapidly to the nucleus, where it is found in the nucleoplasm, avoiding the nucleolus. Similar translocation to the nucleus is also observed for lymphocyte-activated killer cells after the addition

of calcium. The SET complex is associated with the endoplasmic reticulum.

Images



Western blot - Anti-SET/TAF-I antibody (ab92872)

All lanes : Anti-SET/TAF-I antibody (ab92872) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate
Lane 2 : HEK293T whole cell lysate
Lane 3 : Mouse NIH3T3 whole cell lysate

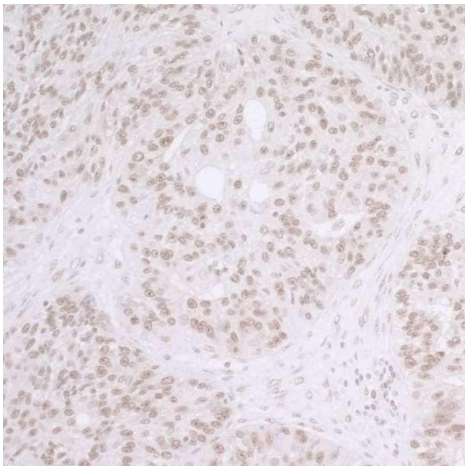
Lysates/proteins at 50 µg per lane.

Predicted band size: 33 kDa

Exposure time: 30 seconds

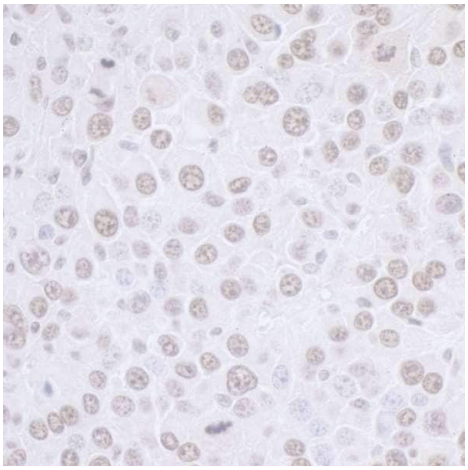
Detection: Chemiluminescence.

Lysates prepared using NETN lysis buffer.



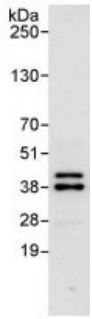
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SET/TAF-I antibody (ab92872)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human ovarian carcinoma tissue, labeling SET/TAF-I with ab92872 at 1/1000 (0.2 µg/mL) dilution. Detection: DAB.



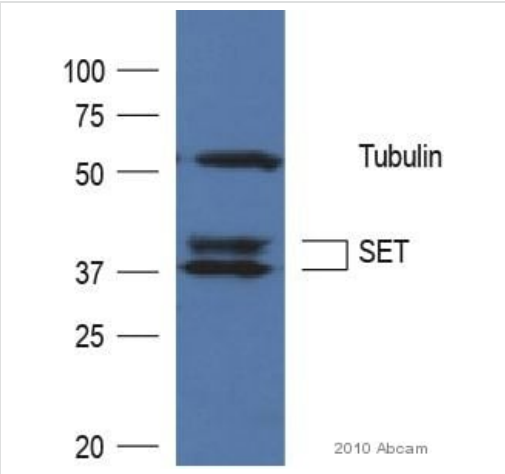
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SET/TAF-I antibody (ab92872)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse renal cell carcinoma tissue, labeling SET/TAF-I with ab92872 at 1/1000 (0.2 µg/mL) dilution. Detection: DAB.



Immunoprecipitation - Anti-SET/TAF-I antibody (ab92872)

3µg ab92872 were used to immunoprecipitate SET/TAF-I from 1mg HeLa whole cell lysate. 20% IP was loaded and probed with ab92872 at 1µg/ml.



Western blot - Anti-SET/TAF-I antibody (ab92872)

This image is courtesy of an anonymous Abreview

Anti-SET/TAF-I antibody (ab92872) at 1/2000 dilution ((in 3% milk in PBST). Incubation was for 24 hours at 4°C.) + Lysate of the soluble fraction of HeLa or U20S cells at 30 µg

Secondary

An HRP polymer Goat anti-rabbit IgG polyclonal at 1/10000 dilution

Developed using the ECL technique.

Predicted band size: 33 kDa

Observed band size: ~37,~40 kDa

Exposure time: 1 minute

Blocking Step: 5% Milk for 30 minutes at room temperature.

ab92872 recognises both isoforms of human SET/TAF-I.

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