

Product datasheet

Anti-SPT5 antibody ab89219

[1 References](#) [3 Images](#)

Overview

Product name	Anti-SPT5 antibody
Description	Mouse monoclonal to SPT5
Host species	Mouse
Tested applications	Suitable for: WB, ELISA, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to amino acids 981-1087 of Human SUPT5H (AAH24203) with a proprietary tag.
Positive control	Partial tagged recombinant Human SUPT5H protein (Immunogen), HeLa nuclear extract and HeLa cells.
General notes	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 1 x PBS, pH 7.2
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2b
Light chain type	kappa

Applications

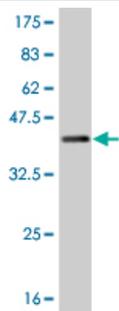
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab89219 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 121 kDa.
ELISA		Use at an assay dependent dilution.
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function	Component of the DRB sensitivity-inducing factor complex (DSIF complex), which regulates mRNA processing and transcription elongation by RNA polymerase II. DSIF positively regulates mRNA capping by stimulating the mRNA guanylyltransferase activity of RNGTT/CAP1A. DSIF also acts cooperatively with the negative elongation factor complex (NELF complex) to enhance transcriptional pausing at sites proximal to the promoter. Transcriptional pausing may facilitate the assembly of an elongation competent RNA polymerase II complex. DSIF and NELF promote pausing by inhibition of the transcription elongation factor TFIIIS/S-II. TFIIIS/S-II binds to RNA polymerase II at transcription pause sites and stimulates the weak intrinsic nuclease activity of the enzyme. Cleavage of blocked transcripts by RNA polymerase II promotes the resumption of transcription from the new 3' terminus and may allow repeated attempts at transcription through natural pause sites. DSIF can also positively regulate transcriptional elongation and is required for the efficient activation of transcriptional elongation by the HIV-1 nuclear transcriptional activator, Tat. DSIF acts to suppress transcriptional pausing in transcripts derived from the HIV-1 LTR and blocks premature release of HIV-1 transcripts at terminator sequences.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the SPT5 family. Contains 5 KOW domains.
Post-translational modifications	Methylated by PRMT1/HRMT1L2 and PRMT5/SKB1. Methylation negatively regulates interaction with P-TEFb and RNA polymerase II. Phosphorylated. Phosphorylation by P-TEFb alleviates transcriptional pausing and can stimulate transcriptional elongation from the HIV-1 LTR. P-TEFb dependent phosphorylation is stimulated by the HIV-1 Tat protein. Phosphorylation may also stimulate interaction with PIN1. Bulk phosphorylation occurs predominantly in mitosis.
Cellular localization	Nucleus.

Images



Western blot - Anti-SUPT5H antibody (ab89219)

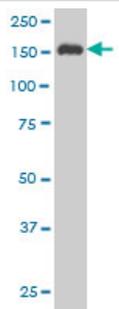
Anti-SPT5 antibody (ab89219) at 5 µg/ml + Partial tagged recombinant Human SUPT5H protein at 0.2 µg

Predicted band size: 121 kDa

Observed band size: 42 kDa

Western blot against tagged recombinant protein immunogen.

Predicted band size of immunogen is 38 kDa.

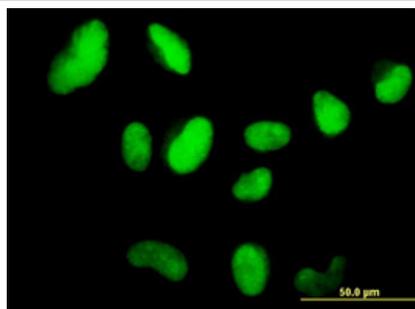


Western blot - Anti-SUPT5H antibody (ab89219)

Anti-SPT5 antibody (ab89219) at 5 µg/ml + HeLa nuclear extract at 50 µg

Predicted band size: 121 kDa

Observed band size: 150 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SUPT5H antibody (ab89219)

ab89219, at 10 µg/ml, staining SUPT5H in HeLa cells by Immunofluorescence.

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