

## Product datasheet

# Anti-SUPT4H antibody [3079C1α] ab54350

[1 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Anti-SUPT4H antibody [3079C1α]
<b>Description</b>	Mouse monoclonal [3079C1α] to SUPT4H
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Recombinant fragment
<b>Immunogen</b>	Recombinant fragment corresponding to Human SUPT4H (internal sequence).
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 1% BSA, PBS</p>
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3079C1α
<b>Isotype</b>	IgG2b

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab54350 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 at an assay dependent concentration. Predicted molecular weight: 13 kDa.

## 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

Widely expressed.

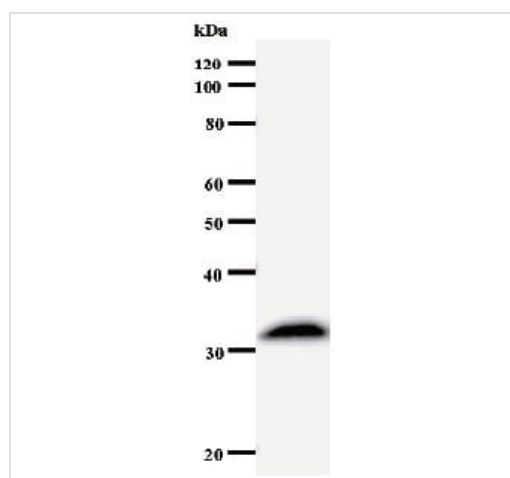
### Sequence similarities

Belongs to the SPT4 family.

### Cellular localization

Nucleus.

## Images



Western blot - Anti-SUPT4H antibody [3079C1a] (ab54350)

Anti-SUPT4H antibody [3079C1a] (ab54350) at 1/100 dilution + immunising recombinant protein

### Secondary

Sheep Anti Mouse IgG at 1/3000 dilution

**Predicted band size:** 13 kDa

**Observed band size:** 32 kDa

The immunogen peptide in this image was tagged. Secondary antibody: Sheep Anti Mouse IgG (Original Conc.; Antibody:0.63mg/ml, HRP: 0.78mg/ml) Immunogen amount:

25ng/lane. MW of Tag: approx. 20kDa.

Antibody only tested on recombinant fragment as immunogen. We have no data on detection of endogenous protein.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

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