

## ARG45224 anti-SPT5 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes SPT5
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	SPT5
Species	Human
Immunogen	Recombinant protein containing to human SUPT5H.
Conjugation	Un-conjugated
Alternate Names	SUPT5H; SPT5 Homolog, DSIF Elongation Factor Subunit; SPT5H; SPT5; DRB Sensitivity-Inducing Factor 160 KDa Subunit; DRB Sensitivity-Inducing Factor Large Subunit; Transcription Elongation Factor SPT5; Tat-Cotransactivator 1 Protein; DSIF Large Subunit; DSIF P160; FLJ34157; HSPT5; Suppressor Of Ty 5 Homolog (S. Cerevisiae); Suppressor Of Ty (S.Cerevisiae) 5 Homolog; Suppressor Of Ty 5 Homolog; Tat-CT1 Protein; Tat-CT1

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	150 kDa	

### Properties

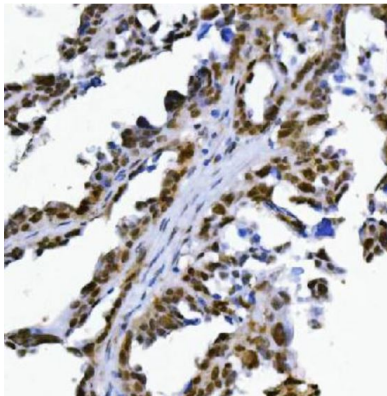
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

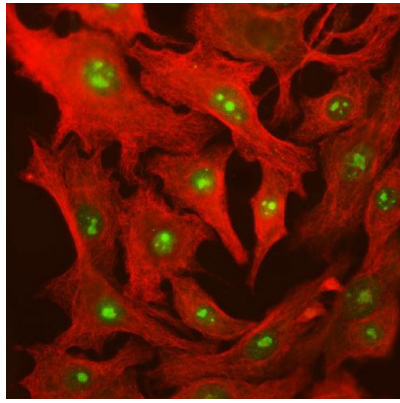
Gene Symbol	SUPT5H
Gene Full Name	SPT5 Homolog, DSIF Elongation Factor Subunit
Background	Enables enzyme binding activity and protein heterodimerization activity. Involved in positive regulation of macroautophagy; regulation of DNA-templated transcription; and transcription elongation by RNA polymerase II. Located in nucleoplasm. Part of DSIF complex. [provided by Alliance of Genome Resources, Nov 2024]
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 TFIIS/S-II. TFIIS/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.. [UniProt]
Calculated Mw	121 kDa
PTM	Acetylation; Isopeptide bond; Methylation; Phosphoprotein; Ubl conjugation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

### Images



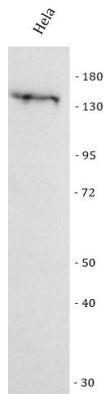
ARG45224 anti-SPT5 antibody IHC-P image

Immunohistochemistry: Human ovarian serous carcinoma stained with ARG45224 anti-SPT5 antibody at 2 µg/ml dilution.



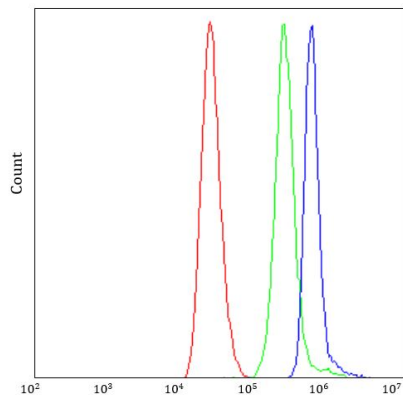
ARG45224 anti-SPT5 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG45224 anti-SPT5 antibody at 5  $\mu$ g/ml dilution.



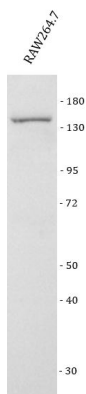
ARG45224 anti-SPT5 antibody WB image

Western blot: HeLa stained with ARG45224 anti-SPT5 antibody at 0.5  $\mu$ g/ml dilution.



ARG45224 anti-SPT5 antibody FACS image

Flow Cytometry: THP-1 stained with ARG45224 anti-SPT5 antibody at 1  $\mu$ g/ $10^6$  cells dilution.



ARG45224 anti-SPT5 antibody WB image

Western blot: RAW264.7 stained with ARG45224 anti-SPT5 antibody at 0.5  $\mu$ g/ml dilution.