

产品名称: SPT4H Rabbit Polyclonal Antibody
产品货号: APRab18224



产品概述 (Summary)

产品名称 (Production Name)	SPT4H Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SUPT4H1 SPT4H SUPT4H
别名 (Alternative Names)	
基因 ID (Gene ID)	6827.0
蛋白 ID (SwissProt ID)	P63272.Synthesized peptide derived from human protein . at AA range: 40-120

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	12kDa

研究背景 (Background)

This gene encodes the small subunit of DRB (5,6-dichloro-1-beta-d-ribofuranosylbenzimidazole) sensitivity-inducing factor (DSIF) complex, which regulates mRNA processing and transcription elongation by RNA polymerase II. The encoded protein

产品名称: SPT4H Rabbit Polyclonal Antibody
产品货号: APRab18224

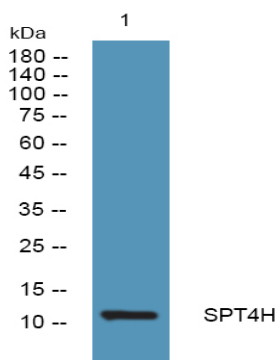


is localized to the nucleus and interacts with the large subunit (SUPT5H) to form the DSIF complex. Related pseudogenes have been identified on chromosomes 2 and 12. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012],function:Component of the DRB sensitivity-inducing 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.,similarity:Belongs to the SPT4 family.,subunit:Interacts with SUPT5H to form DSIF. DSIF interacts with the positive transcription elongation factor b complex (P-TEFb complex), which is composed of CDK9 and cyclin-T (CCNT1 or CCNT2). DSIF interacts with RNA polymerase II, and this interaction is reduced by phosphorylation of the C-terminal domain (CTD) of POLR2A by P-TEFb. DSIF also interacts with the NELF complex, which is composed of WHSC2/NELFA, COBRA1/NELFB, TH1L/NELFD and RDBP/NELFE, and this interaction occurs following prior binding of DSIF to RNA polymerase II. DSIF also interacts with HRMT1L2/PRMT1, HTATSF1/TATSF1, RNGTT/CAP1A, SKB1/PRMT5, SUPT6H, and can interact with PIN1.,tissue specificity:Widely expressed.,

研究领域 (Research Area)

Epigenetics and Nuclear Signaling; Transcription; Polymerase associated factors; Pol II Transcription; Elongation factors; Other factors

图片 (Image Data)



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night

产品名称: SPT4H Rabbit Polyclonal Antibody
产品货号: APRab18224



注意事项 (Note)

For research use only .