편 정 한 TH1L (D5G6W) Rabbit mAb	С	Cell Signaling	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#12265	Web:	info@cellsignal.com cellsignal.com	
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Applications: W, IP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 66	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IXH7	Entrez-Gene Id 51497	
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
		Application			Dilution		
		Western Blotting			1:1000		
	Immunoprecipitatior	ı		1:100			
		Chromatin IP			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	TH1L (D5G6W) Rabbi	TH1L (D5G6W) Rabbit mAb recognizes endogenous levels of total TH1L protein.				
Species predict based on 100% homology		Hamster, Bovine, Dog	g, Horse				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala132 of human TH1L protein.					
Background		Negative Elongation Factor (NELF) consists of four subunits: WHSC2 (NELF-A), COBRA-1 (NELF-B), TH1L (NELF-C/D), and NELF-E (1). NELF, together with DRB-sensitivity inducing factor (DSIF), inhibits RNA Polymerase II (RNAPII) elongation resulting in RNAPII promoter proximal pausing, where it waits additional signaling to resume transcription (2,3). The release of RNAPII from promoter proximal pausing is a critical regulatory point during transcription and is signaled by positive transcription elongation factor (p-TEF-b) phosphorylation of both NELF and the carboxy-terminal domain (CTD) within the largest subunit of RNAPII (3,4). WHSC2 is thought to connect the NELF complex to RNAPII machinery, while NELF-E contains an RNA binding motif that is necessary for NELF function (1,5,6). TH1L, together with COBRA-1, are integral subunits that bring WHSC2 and NELF-E together in the NELF complex (1).					
Background Ro	eferences	1. Narita, T. et al. (2003) <i>Mol Cell Biol</i> 23, 1863-73. 2. Nechaev, S. and Adelman, K. (2011) <i>Biochim Biophys Acta</i> 1809, 34-45. 3. Yamaguchi, Y. et al. (1999) <i>Cell</i> 97, 41-51. 4. Buratowski, S. (2009) <i>Mol Cell</i> 36, 541-6. 5. Yamaguchi, Y. et al. (2001) <i>Science</i> 293, 124-7. 6. Yamaguchi, Y. et al. (2002) <i>Mol Cell Biol</i> 22, 2918-27.					
Species Reacti	vity	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
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