1/1/24, 1:32 PM Revision 1

ମ୍ଭୁ TH1L (D5G6W) Rabbit mAb						ell Signaling снмогоду [®]	
Sto					Orders:	877-616-CELL (2355) orders@cellsignal.com	
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<i>‡</i> 122					Web:	info@cellsignal.com cellsignal.com	
				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only.	Not for Use in D	Diagnostic Proc	edures.				
Applications: WB, 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 o This a	For optimal ChIP results, use 5 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Арр	lication			Dilution	ı	
	Wes	tern Blotting			1:1000		
	Imm	unoprecipitation			1:100		
	Chro	omatin IP			1:100		
Storage	Supp 0.02%	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	ivity TH1L	(D5G6W) Rabbit	mAb recognizes	endogenous levels of t	otal TH1L protein.		
Species predicted react based on 100 sequence homolog	to Hams 0% gy:	ster, Bovine, Dog,	Horse				
Source / Purificatio	on Mono residu	clonal antibody is ues surrounding A	produced by imm la132 of human T	nunizing animals with a TH1L protein.	synthetic peptide co	prresponding to	
Background	Nega TH1L RNA additi a criti TEF-I RNAF conta are in	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 Refere	ences 1. Na 2. Ne 3. Yar 4. Bui 5. Yar 6. Yar	 Narita, T. et al. (2003) <i>Mol Cell Biol</i> 23, 1863-73. Nechaev, S. and Adelman, K. (2011) <i>Biochim Biophys Acta</i> 1809, 34-45. Yamaguchi, Y. et al. (1999) <i>Cell</i> 97, 41-51. Buratowski, S. (2009) <i>Mol Cell</i> 36, 541-6. Yamaguchi, Y. et al. (2001) <i>Science</i> 293, 124-7. Yamaguchi, Y. et al. (2002) <i>Mol Cell Biol</i> 22, 2918-27. 					
Species Reactivity	Specie	es reactivity is dete	ermined by testing	g in at least one approv	red application (e.g.,	western blot).	
Western Blot Buffe	er IMPOF 0.1% T	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 Key	WB: \	Nestern Blotting II	P: Immunoprecipi	tation ChIP: Chromatir	ı IP		
Cross-Reactivity K	Key H: hur X: Xer GP: G	nan M: mouse R: nopus Z: zebrafish uinea Pig Rab: ra	rat Hm: hamster B: bovine Dg: do bbit All: all specie	Mk: monkey Vir: virus og Pg: pig Sc: S. cerev es expected	Mi: mink C: chicken <i>i</i> isiae Ce: C. elegans	Dm: D. melanogaster s Hr: horse	

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Limited Uses

TH1L (D5G6W) Rabbit mAb (#12265) Datasheet Without Images Cell Signaling Technology

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