Store at -20C	ELL (D7N6U) Rabbit mAb		Cell Signaling TECHNOLOGY®	
		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC, ChIP, ChIP-seq	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P55199	Entrez-Gene Id: 8178
Product Usage Information		For optimal ChIP and 10 ⁶ cells) per IP. This	ChIP-seq results, u antibody has been v	se 5 μl of antibody and 1 validated using SimpleCh	0 μg of chromatin (nIP [®] Enzymatic Chro	approximately 4 x omatin IP Kits.
		Application Western Blotting Immunoprecipitatior Immunofluorescence Chromatin IP Chromatin IP-seq	ı e (Immunocytochen	iistry)		Dilution 1:1000 1:100 1:1600 1:100 1:100
Storage		Supplied in 10 mM sc 0.02% sodium azide.	odium HEPES (pH 7.! Store at –20°C. <i>Do r</i>	5), 150 mM NaCl, 100 µg not aliquot the antibody.	/ml BSA, 50% glycer	ol and less than
Specificity/Sens	sitivity	ELL (D7N6U) Rabbit n	nAb recognizes end	ogenous levels of total E	LL protein.	
Species predict based on 100% homology	ed to react sequence	Bovine, Dog, Horse				
Source / Purific	ation	Monoclonal antibody residues surrounding	is produced by imn Asp399 of human	nunizing animals with a s ELL protein.	synthetic peptide co	prresponding to
Background		The super elongation transcription elongat proteins. The pathog SEC subunits joined t The SEC has been fou (ELL), ELL2, and ELL3, rate of RNAPII transc phosphorylates the c heptapeptide repeat. factor (DSIF) and neg and pausing to produ with the members of developmentally regu genes as underlying o	complex (SEC) play ion (1). The SEC is co enesis of mixed line o the histone H3 Ly and to contain RNAF along with the asso ription <i>in vitro</i> , (1,2, arboxy-terminal do The SEC negative to ative elongation fac uctive transcription the SEC leads to SE ulated <i>HOX</i> genes, in contributors to leuk	s a critical role in regulat omposed of AFF4, AFF1// age leukemia is often as s4 methyltransferase mi PII elongation factors ele ociated factors EAF1 and 5-7). The SEC positive tra- main within the largest s ranscription elongation f tor (NELF), signal the tra- elongation (2,8-10). The C recruitment to MLL reg mplicating the misregula emogenesis (1,2,9,11).	ting RNA polymeras AF4, MLLT3/AF9, and sociated with trans xed lineage leukem ven-nineteen lysine EAF2, which can ind sociated with trans outpunit of RNAP II a factors, DRB-induce instition from transc chromosomal trans gulated genes, such ation and overexpre	e II (RNAPII) d MLLT1/ENL locations of the ia (<i>MLL</i>) gene (1-4). e-rich leukemia crease the catalytic on factor b (P-TEFb) t Ser2 of the d stimulating ription initiation location of <i>MLL</i> a sthe highly ession of these
Background Re	ferences	1. Mohan, M. et al. (2 2. Lin, C. et al. (2010) 3. Drexler, H.G. et al. (4. Smith, E. et al. (201 5. Shilatifard, A. et al. 6. Shilatifard, A. et al. 7. Miller, T. et al. (2000 8. Lin, C. et al. (2011) 9. Yokoyama, A. et al. 10. Cho, S. et al. (2010)	010) Nat Rev Cance. Mol Cell 37, 429-37, 2004) Leukemia 18, 1) Genes Dev 25, 66 (1996) Science 271, (1997) Proc Natl Ac 0) J Biol Chem 275, 3 Genes Dev 25, 1486 (2010) Cancer Cell 0) Cell Cycle 9, 1697 umar, S. (2010) Nat J	r 10, 721-8. 227-32. 31-72. 1873-6. <i>ad Sci U S A</i> 94, 3639-43. 32052-6. -98. 17, 198-212. -705. Rev Cancer 10, 361-71.		

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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