

MLL2/KMT2B (D6X2E) Rabbit mAb (Carboxy-terminal Antigen)



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Applications: W, IP, IF-IC, C&R	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UMN6	Entrez-Gene Id: 9757
Product Usage Information		The CUT&RUN dilution Application Western Blotting Immunoprecipitation Immunofluorescence (CUT&RUN		ising CUT&RUN Assay Kit istry)	: #86652.	Dilution 1:1000 1:50 1:1000 1:50
Storage				i), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sens	sitivity	MLL2 protein. This anti	ibody detects the T	xy-terminal Antigen) rec aspase 1-cleaved 80 kDa (Da MLL2/KMT2B proteir	C-terminal MLL2/	
Source / Purific	ation			nunizing animals with a s Iman MLL2/KMT2B prote		prresponding to
Background		histone methyltransfer transcriptional co-activ Set1-related proteins: S COMPASS-like complex found in distinct protei CXXC1, and DPY30, wh methyltransferase actir menin (6).MLL2, also ki gene expression by me in embryogenesis and promoters in embryon 2,700 amino acids that N) and C-terminal (MLL complex. MLL2-N, MLL MLL2/COMPASS compl translocations are ofte driving component of 1 homeostasis, and card has shown that MLL2 is potential modulator of	ase complex, whic vator (1). While years SET1A, SET1B, MLL was and methylate lin complexes, all of ich are required for vity (2-6). MLL1 and nown as histone-ly ediating tri-methyla hematopoiesis, an ic stem cells (7). Lil is cleaved by the T -2-C, WDR5, RBBP5 lex, which is recruit n associated with v these types of leuk iac lineage differer s required for surv MLL1-rearranged	ein was first identified in h methylates histone H3 st contain only one know 1, MLL2, MLL3, and MLL2, histone H3 at Lys4 (2,3). which share the commo r proper complex assem d MLL2 complexes conta sine N-methyltransferas ation of histone H3 lysine d is required for histone ke MLL1, MLL2 is a large aspase 1 threonine endo oth of which are subunits , and ASH2L define the c ted to target genes to re- various hematological m emia. MLL2 is required for hitation of mouse embry ival of MLL-AF9-transforr leukemias (12). Mutation associated with gastroint	at Lys4 and function of set Lys4 and function of Set1 protein, ma 4, all of which asser These Set1-related on subunits WDR5, bly and modulation in the additional price 2 B (KMT2B), function e 4 at the promoter H3 lysine 4 tri-met protein made up o popeptidase to form s of the functional N ore catalytic compor- gulate transcription alignancies and the or memory formation onic stem cells (8-1 med cells, implication is in MLL2 cause compo- tion	ons as a mmals contain six mble into proteins are each RBBP5, ASH2L, n of histone otein subunit, tions to activate s of genes involved hylation at bivalent f approximately N-terminal (MLL2- MLL2/COMPASS onent of the n. <i>MLL1</i> gene bught to be a ion, proper glucose 1). A recent study ng MLL2 as a omplex early-onset
Background Re	ferences	1. Miller, T. et al. (2001) 2. Shilatifard, A. (2008) 3. Tenney, K. and Shilat 4. Lee, J.H. and Skalnik, 5. Lee, J.H. et al. (2007) 6. Hughes, C.M. et al. (2 7. Denissov, S. et al. (2018) 8. Kerimoglu, C. et al. (2014) 10. Goldsworthy, M. et 11. Wan, X. et al. (2017) 13. Meyer, E. et al. (2011)	Curr Opin Cell Bio. tifard, A. (2005) J Ce , D.G. (2005) J Biol (J Biol Chem 282, 1 2004) Mol Cell 13, 5 014) Development 2017) Cell Rep 20, 5 2013) J Neurosci 33 al. (2013) PLoS On) Stem Cell Rev 10, 7) Cancer Cell 31, 75	20, 341-8. ell Biochem 95, 429-36. Chem 280, 41725-31. 3419-28. 587-97. 141, 526-37. 538-48. 3, 3452-64. e 8, e61870. 643-52. 55-770.e6.		

Species Reactivity	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) C&R: CUT&RUN
Cross-Reactivity Key	H: Human
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