Store at

-

-20C WDR82 (D2I3B) Rabbit mAb #99715



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #Q6UXN9	Entrez-Gene Id: 80335
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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	WDR82 (D2I3B) Rabbit mAb recognizes endogenous levels of total WDR82 protein.				
Species predict based on 100% homology	ed to react sequence	Hamster, Horse				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human WDR82 protein.				
Background		The Set1 histone methyltransferase protein was first identified in yeast as part of the Set1/COMPASS histone methyltransferase complex, which methylates histone H3 at Lys4 and functions as a transcriptional co-activator (1). While yeast contain only one known Set1 protein, six Set1-related proteins exist in mammals: SET1A, SET1B, MLL1, MLL2, MLL3, and MLL4, all of which assemble into COMPASS-like complexes and methylate histone H3 at Lys4 (2,3). These Set1-related proteins are each found in distinct protein complexes, all of which share the common subunits WDR5, RBBP5, ASH2L, CXXC1 and DPY30. These subunits are required for proper complex assembly and modulation of histone methyltransferase activity (2-6). MLL1 and MLL2 complexes contain the additional protein subunit, menin (6). Like yeast Set1-related mammalian proteins methylate histone H3 at Lys4 (2-6). MLL translocations are found in a large number of hematological malignancies, suggesting that Set1/COMPASS histone methyltransferase complexes play a critical role in leukemogenesis (6). WDR82 is a core subunit specific to the SET1A and SET1B COMPASS-like complexes (4,5). WDR82 facilitates methylation of histone H3 lysine 4 during transcriptional activation by binding to Ser5-phosphorylated Rpb1 CTD and ubiquityl-H2B, and recruiting SET1A/SET1B complexes to the transcription start site of genes (7,8). WDR82 is also a component of the PTW/PP1 phosphatase complex that functions to regulate chromatin structure and cell cycle progression during the transition from mitosis to interphase (9).				
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. Lee, J.H. and Skalnik, 8. Wu, M. et al. (2008) <i>I</i> 9. Lee, J.H. et al. (2010)	Curr Opin Cell Bio ifard, A. (2005) J Co D.G. (2005) J Biol (J Biol Chem 282, 1 2004) Mol Cell 13, 5 D.G. (2008) Mol Co Mol Cell Biol 28, 73	l 20, 341-8. ell Biochem 95, 429-36. Chem 280, 41725-31. 3419-28. 587-97. ell Biol 28, 609-18. 37-44.		
Species Reactiv	/ity	Species reactivity is det	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted shaking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting IP	: Immunoprecipita	ation		
Cross-Reactivit	у Кеу	H: Human M: Mouse N	lk: Monkey			

Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.		
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.		