

WHSC1L1 (D4N9N) Rabbit mAb



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

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Applications: W, IP, IHC-P, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80-90, 180	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BZ95	Entrez-Gene Id: 54904
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Immunoprecipitation				1:200
		Immunohistochemist	ry (Paraffin)			1:200
		Flow Cytometry (Fixed	/Permeabilized)			1:400
Storage		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.				
		For a carrier free (BSA and azide free) version of this product see product #33839.				
Specificity/Sensitivity		WHSC1L1 (D4N9N) Rabbit mAb recognizes endogenous levels of total WHSC1L1 protein, both long and short isoforms.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro117 of human WHSC1L1 protein.				
Background		Wolf-Hirschhorn syndrome candidate 1-like protein 1 (WHSC1L1), also known as histone-lysine N-methyltransferase NSD3, is a SET domain-containing histone methyltransferase protein that methylates histone H3 on lysine 4 (H3K4me) and lysine 27 (H3K27me) (1). Methylation of histone H3 lysine 4 is associated with transcriptional activation, while methylation of histone H3 lysine 27 is associated with transcriptional repression. WHSC1L1 can function as an oncogene or a tumor suppressor protein, depending on cell context, and has been shown to regulate expression of a number of genes associated with cell cycle (2). Amplification and/or increased expression of WHSC1L1 in breast, lung, and liver cancer increases growth and survival, and is associated with poor prognosis (2-5). In addition, the NSD3 gene has been found fused with the nuclear pore complex protein NUP98 gene in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL), and fused with the NUT gene in NUT midline carcinomas (6-10).				
Background References		3. Angrand, P.O. et al. 4. Yang, Z.Q. et al. (201) <i>Biochem Biophys</i> (2001) <i>Genomics</i> 74 (0) <i>Cancer Res</i> 70, 8	<i>Res Commun</i> 398, 565-7 I, 79-88. 487-97.	70.	
		5. Kang, D. et al. (2013) <i>Genes Chromosomes Cancer</i> 52, 126-39. 6. Rosati, R. et al. (2002) <i>Blood</i> 99, 3857-60.				
				<i>Cytogenet</i> 190, 108-12.		
		8. French, C.A. et al. (2				
		9. Suzuki, S. et al. (2015) <i>Pathol Res Pract</i> 211, 404-8.				
		10. Kuroda, S. et al. (20	015) <i>Case Rep Path</i>	ol 2015, 572951.		
Species Reactiv	rity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	······································	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

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 **IHC-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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