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ZMYND11/BS69 (E7P9O) Rabbit mAb



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Applications: W, ChIP, ChIP-seq, C&R, C&T	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 74, 64	Source/Isotype: Rabbit IgG	UniProt ID: #Q15326	Entrez-Gene Id 10771	
Product Usage Information		For optimal ChIP and 10 ⁶ cells) per IP. This a	ChIP-seq results, us antibody has been v	se 10 μl of antibody and validated using SimpleCh	10 μg of chromatin IP [®] Enzymatic Chro	(approximately 4 x omatin IP Kits.	
		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.					
		The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.					
		Application			Dilution		
		Western Blotting			1:1000		
		Chromatin IP			1:50		
		Chromatin IP-seq			1:50		
		CUT&RUN			1:100		
		CUT&Tag			1:100		
Storage		Supplied in 10 mM so 0.02% sodium azide. S	dium HEPES (pH 7.5 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/Sen	sitivity	ZMYND11/BS69 (E7P9	9O) Rabbit mAb reco	ognizes endogenous leve	els of total ZMYND1	1/BS69 protein.	
Source / Purific	ation	Monoclonal antibody residues surrounding	is produced by imm Pro430 of human Z	nunizing animals with a s MYND11/BS69 protein.	synthetic peptide co	orresponding to	
Background		ZMYND11, also commonly referred to as BS69, is a ubiquitous chromatin reader protein that recognizes tri-methyl histone H3 lysine 36 (H3K36me3) and acts as a transcriptional repressor. It contains several domains associated with chromatin reader proteins, including an N-terminal PHD finger, a bromodomain, a PWWP domain, and a C-terminal MYND domain (1), and it shares a similar domain organization with its homolog protein ZMYND8/RACK7 (2). ZMYND11 specifically recognizes and binds to H3K36me3 modification sites on histone variant H3.3 (but not H3.1 nor H3.2), and modulates RNA Polymerase II-mediated elongation (3). ZMYND11 colocalizes with areas of high gene expression and associates with transcription factors such as E1A, MGA, Ets-2, c-Myb, and B-Myb (4). Due to its ability to repress oncogene expression, ZMYND11 is considered to be a tumor suppressor and is found to be downregulated, mutated, translocated, and show copy number variations in many types of cancer. Low levels of ZMYND11 correlate with poor prognosis in breast cancer, whereas its overexpression suppresses cancer cell growth <i>in vivo</i> and tumor formation in mice (3). Translocation of ZMYND11-MBTD1 is associated with acute myeloid leukemia (AML) (5-6). Copy number variations have been associated with multiple hematological disorders, including AML, acute lymphoblastic leukemia (ALL), and multiple myeloma (MM), among others (7). Translocations and mutations of ZMYND11 have also been found to be associated with autism and other neuropsychiatric and intellectual disabilities (7).					
Background Re	ferences	1. Wang, J. et al. (2014 2. Ansieau, S. and Ser 3. Wen, H. et al. (2014 4. Velasco, G. et al. (20 5. De Braekeleer, E. et 6. Yamamoto, K. et al. 7. Yang, H. et al. (2010	4) <i>Cell Res</i> 24, 890-3 geant, A. (2003) <i>Pat</i> 4) <i>Nature</i> 508, 263-8 2006) <i>J Biol Chem</i> 28 5 al. (2014) <i>Leuk Lymph</i> 6. (2018) <i>Leuk Lymph</i> 6) <i>Ann Hematol</i> 89, 5	<i>:hol Biol (Paris)</i> 51, 397-9 I, 16546-50. <i>nphoma</i> 55, 1189-90. <i>noma</i> , 1-5. 959-64.			
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For west	tern blots, incubate	membrane with diluted	primary antibody i	n 5% w/v BSA, 1X	

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key	W: Western Blotting ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
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