#44570

## FBXL10 (D3T8J) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Transfected Only	<b>MW (kDa):</b> 180	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q8NHM5	Entrez-Gene Id: 84678		
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000			
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	<b>pecificity/Sensitivity</b> FBXL10 (D3T8J) Rabbit mAb recognizes transfected levels of total FBXL10 protein.							
<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with recombinant protein human FBXL10 protein.				specific to the				
Background		F-box and leucine-rich repeat protein 10 (FBXL10), also known as lysine-specific demethylase 2B (KDM2B) and JmjC domain-containing histone demethylation protein 1B (JHDM1B), is a lysine-specific histone demethylase protein that demethylates Lys4 and Lys36 of histone H3 (1,2). FBXL10 contains a zinc finger-CxxC5 DNA binding domain that binds to un-methylated CpG dinucleotides and has been shown to function as part of a non-canonical polycomb repressor complex (PRC1) that is associated with repression of developmentally regulated genes (3-5). In embryonic stem cells, FBXL10 is critical for targeting PRC1 to CpG islands and regulating gene expression during differentiation. In addition, FBXL10 is over-expressed in various cancers where it functions to induce cell proliferation and repress senescence through repression of the p15Ink4b gene locus (6-8). High expression in acute myeloid leukemia is associated with increased proliferation and self-renewal of leukemic stem cells (6-8).						
Background Re	eferences	1. He, J. et al. (2008) <i>Nat Struct Mol Biol</i> 15, 1169-75. 2. Frescas, D. et al. (2007) <i>Nature</i> 450, 309-13. 3. Boulard, M. et al. (2015) <i>Nat Genet</i> 47, 479-85. 4. Wu, X. et al. (2013) <i>Mol Cell</i> 49, 1134-46. 5. Farcas, A.M. et al. (2012) <i>Elife</i> 1, e00205. 6. Tzatsos, A. et al. (2013) <i>J Clin Invest</i> 123, 727-39. 7. Nakamura, S. et al. (2013) <i>Mol Carcinog</i> 52, 57-69. 8. He, J. et al. (2011) <i>Blood</i> 117, 3869-80.						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 K	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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