ASH2L (D93F6) XP® Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80, 65	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UBL3	Entrez-Gene Id: 9070
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		nistry)		Dilution 1:2000 1:100 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/Sensitivity		ASH2L (D93F6) XP [®] Rabbit mAb detects endogenous levels of all known isoforms of the ASH2L protein.				
Species predicted to react based on 100% sequence homology		D. melanogaster				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly265 of human ASH2L 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, all six 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).				
Background References		 Miller, T. et al. (2001) Proc Natl Acad Sci USA 98, 12902-7. Shilatifard, A. (2008) Curr Opin Cell Biol 20, 341-8. Tenney, K. and Shilatifard, A. (2005) J Cell Biochem 95, 429-36. Lee, J.H. and Skalnik, D.G. (2005) J Biol Chem 280, 41725-31. Lee, J.H. et al. (2007) J Biol Chem 282, 13419-28. Hughes, C.M. et al. (2004) Mol Cell 13, 587-97. 				
Species Reactiv	/ity	Species reactivity is do	etermined by testir	g in at least one approve	ed 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)				

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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