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ASH2L (D93F6) XP® Rabbit mAb



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Applications: WB, 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	Арр	plication				Dilution	
Information	We	stern Blotting				1:2000	
	Imn	nunoprecipitation				1:100	
	Imn	nunofluorescence (Immunocytochen	nistry)		1:1000	
Storage			m HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than re 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 predicte react based on 1 sequence homol	100%	nelanogaster					
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,					

Background References

- 1. Miller, T. et al. (2001) Proc Natl Acad Sci USA 98, 12902-7.
- 2. Shilatifard, A. (2008) Curr Opin Cell Biol 20, 341-8.
- 3. Tenney, K. and Shilatifard, A. (2005) J Cell Biochem 95, 429-36.

methyltransferase complexes play a critical role in leukemogenesis (6).

- 4. Lee, J.H. and Skalnik, D.G. (2005) J Biol Chem 280, 41725-31.
- 5. Lee, J.H. et al. (2007) J Biol Chem 282, 13419-28.
- 6. Hughes, C.M. et al. (2004) Mol Cell 13, 587-97.

Species Reactivity

Species reactivity is determined by testing in at least one approved 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.

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

Applications Key

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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