RBBP5 (D4Y7R) Rabbit mAb

100 μl(10 western blots)

New 05/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	lsotype	
W	H M R Mk (C X 7 Hr)	67 kDa	Rabbit loG**	
w Endogenous	H, W, K, WK, (C, X, Z, Hr)	67 KDa	Raddit IgG**	

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, mammals contain six Set1-related proteins: 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, which 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 veast Set1. all six Set1-related mammalian proteins methylate histone H3 at Lvs4 (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).

Specificity/Sensitivity: RBBP5 (D4Y7R) recombinant antibody recognizes endogenous levels of total RBBP5 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly261 of human RBBP5 protein.

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.
- (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.



Western blot analysis of extracts from various cell lines using RBBP5 (D4Y7R) Rabbit mAb.



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Entrez-Gene ID #5929

Western blotting

Swiss-Prot Acc. #Q15291

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.*

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.