

Store at
-20°C

MEP50 (D56B8) Rabbit mAb

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#2018

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orders@cellsignal.comEntrez-Gene ID #79084
UniProt ID #Q9BQA1

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For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W, IP
Endogenous**Species Cross-Reactivity***
H, M, R, Mk**Molecular Wt.**
42 kDa**Isotype**
Rabbit IgG**

Background: MEP50 (methylome protein 50) is a component of the methylome, a protein arginine methyltransferase complex that modifies specific arginine residues found in arginine- and glycine-rich regions of some spliceosomal Sm proteins. MEP50 is important for methylome activity and may regulate the transfer of Sm proteins to the SMN (survival of motor neurons) complex, an early step in the assembly of U snRNPs. Both the methylome and the SMN complex are essential for the assembly of spliceosomal snRNPs (1).

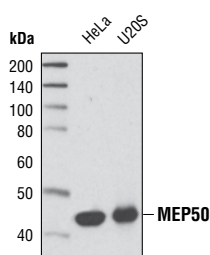
MEP50 is a WD repeat protein that may provide an interface for multiple protein interactions between methylome proteins. (1). It binds to JBP1, an arginine protein methyltransferase component of the methylome. MEP50 has been shown to interact with CTD phosphatase FCP1 (CTDP1), a protein that may link the processes of transcriptional elongation and splicing (2), and with SUZ12, a polycomb group protein involved in transcriptional repression (3). JBP1 and MEP50 have also been reported to interact with the methyl-CpG binding protein complex MBD2/NuRD (4).

Specificity/Sensitivity: MEP50 (D56B8) Rabbit mAb detects endogenous levels of MEP50 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Ser225 of human MEP50.

Background References:

- (1) Friesen, W.J. et al. (2002) *J Biol Chem* 277, 8243-7.
- (2) Licciardo, P. et al. (2003) *Nucleic Acids Res* 31, 999-1005.
- (3) Furuno, K. et al. (2006) *Biochem Biophys Res Commun* 345, 1051-8.
- (4) Le Guezennec, X. et al. (2006) *Mol Cell Biol* 26, 843-51.



Western blot analysis of extracts of HeLa and U2OS cells using MEP50 (D56B10) Rabbit mAb.

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.

*Species cross-reactivity is determined by western blot.

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

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:200

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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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.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.