

**MEP50 (D56B8) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, eCLIP	H M R Mk	Endogenous	42	Rabbit IgG	#Q9BQA1	79084

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
eCLIP

**Dilution**

1:1000  
1:200  
1:200

For more information about the RBP-eCLIP service please visit Eclipsebio.

**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**

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**

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).

**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.

**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.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **eCLIP:** eCLIP

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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