

#2823 Store at -20°C

MEP50 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H	Endogenous	42	Rabbit	#Q9BQA1	79084

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MEP50 Antibody detects endogenous levels of total MEP50 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Ser225 of human MEP50. Antibodies are purified by peptide affinity chromatography.

Background

MEP50 (methylosome protein 50) is a component of the methylosome, 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 methylosome 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 methylosome 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 methylosome proteins. (1). It binds to JBP1, an arginine protein methyltransferase component of the methylosome. 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

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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