

#2018 Store at -20C

MEP50 (D56B8) Rabbit mAb**Cell Signaling**
TECHNOLOGY®**Orders:** 877-616-CELL (2355)
orders@cellsignal.com**Support:** 877-678-TECH (8324)**Web:** info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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

Product Usage Information**Application**

Western Blotting

Immunoprecipitation

Dilution

1:1000

1:200

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 (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**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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
 All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.