

**MEPCE Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13105c**

**Specification**

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**MEPCE Antibody (Center) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB,E  |
| Primary Accession | <a href="#">O7L2J0</a>  |
| Other Accession   | <a href="#">NP_001181921.1</a> , <a href="#">NP_001181920.1</a> ,<br><a href="#">NP_001181919.1</a> , <a href="#">NP_062552.2</a> |
| Reactivity        | Mouse   |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 74355   |
| Antigen Region    | 239-267   |

**MEPCE Antibody (Center) - Additional Information**

**Gene ID** 56257

**Other Names**

7SK snRNA methylphosphate capping enzyme, MePCE, 211-, Bicoid-interacting protein 3 homolog, Bin3 homolog, MEPCE, BCDIN3

**Target/Specificity**

This MEPCE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 239-267 amino acids from the Central region of human MEPCE.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MEPCE Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MEPCE Antibody (Center) - Protein Information**

**Name** MEPCE {ECO:0000303|PubMed:30559425, ECO:0000312|HGNC:HGNC:20247}

**Function** S-adenosyl-L-methionine-dependent methyltransferase that adds a methylphosphate cap at the 5'-end of 7SK snRNA (7SK RNA), leading to stabilize it (PubMed:[17643375](#), PubMed:[19906723](#), PubMed:[30559425](#)). Also has a non-enzymatic function as part of the 7SK RNP complex: the 7SK RNP complex sequesters the positive transcription elongation factor b (P-TEFb) in a large inactive 7SK RNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (PubMed:[17643375](#)). The 7SK RNP complex also promotes snRNA gene transcription by RNA polymerase II via interaction with the little elongation complex (LEC) (PubMed:[28254838](#)). In the 7SK RNP complex, MEPCE is required to stabilize 7SK RNA and facilitate the assembly of 7SK RNP complex (PubMed:[19906723](#)). MEPCE has a non-enzymatic function in the 7SK RNP complex; interaction with LARP7 within the 7SK RNP complex occluding its catalytic center (PubMed:[19906723](#)).

#### Cellular Location

Nucleus.

#### Tissue Location

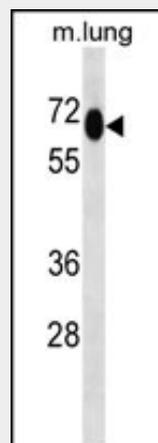
Expressed in chronic myeloid leukemia cells, adrenal gland, brain, cerebellum, kidney, lung, mammary gland and testis (PubMed:[12358911](#)). Weakly or not expressed in other tissues (PubMed:[12358911](#)).

#### MEPCE Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MEPCE Antibody (Center) - Images



MEPCE Antibody (Center) (Cat. #AP13105c) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the MEPCE antibody detected the MEPCE protein (arrow).

#### MEPCE Antibody (Center) - Background

S-adenosyl-L-methionine-dependent methyltransferase that adds a methylphosphate cap at the 5'-end of 7SK snRNA, leading to stabilize it.

#### **MEPCE Antibody (Center) - References**

Xue, Y., et al. Nucleic Acids Res. 38(2):360-369(2010)

Krueger, B.J., et al. Nucleic Acids Res. 36(7):2219-2229(2008)

Kaneko, S., et al. Proc. Natl. Acad. Sci. U.S.A. 104(45):17620-17625(2007)

Jeronimo, C., et al. Mol. Cell 27(2):262-274(2007)

Olsen, J.V., et al. Cell 127(3):635-648(2006)