

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

MEPCE Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q7L2J0
Other Accession	NP_001181921.1 , NP_001181920.1 , NP_001181919.1 , NP_062552.2
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

E~~Use at an assay dependent concentration.

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](#), PubMed:[38100593](#)). 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](#)). Also required for stability of U6 snRNAs (PubMed:[38100593](#)).

Cellular Location

Nucleus.

Tissue Location

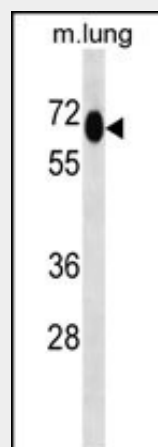
Expressed in chronic myeloid leukemia cells, adrenal gland, brain, cerebellum, kidney, lung, mammary gland and testis (PubMed:12358911). Weakly or not expressed in other tissues (PubMed:12358911).

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)