

MEPCE Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI15441**Specification****MEPCE Antibody - middle region - Product Information**

Application	WB
Primary Accession	Q7L2J0
Other Accession	NM_019606 , NP_062552
Reactivity	Human, Rat, Rabbit, Guinea Pig, Dog
Predicted	Human, Rat, Rabbit, Pig, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76kDa KDa

MEPCE Antibody - middle region - Additional Information**Gene ID** 56257**Alias Symbol** BCDIN3, FLJ20257**Other Names**

7SK snRNA methylphosphate capping enzyme, MePCE, 2.1.1.-, Bicoid-interacting protein 3 homolog, Bin3 homolog, MEPCE, BCDIN3

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-MEPCE antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

MEPCE Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

MEPCE Antibody - middle region - 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

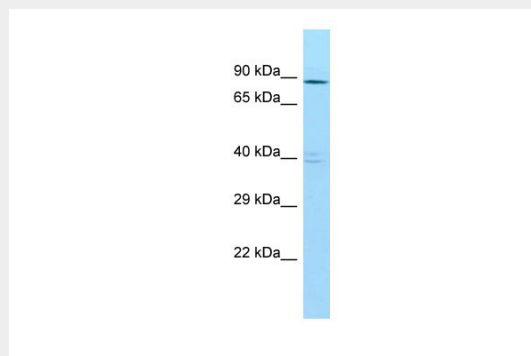
Expressed in chronic myeloid leukemia cells, adrenal gland, brain, cerebellum, kidney, lung, mammary gland and testis (PubMed:12358911). Weakly or not expressed in other tissues (PubMed:12358911).

MEPCE Antibody - middle region - 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 - middle region - Images



Host: Rabbit

Target Name: MEPCE

Sample Tissue: NCI-H226 Whole cell lysate

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Antibody Dilution: 1.0µg/ml MEPCE is supported by BioGPS gene expression data to be expressed in NCIH226

MEPCE Antibody - middle region - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 424:157-164(2003).
Scherer S.W.,et al.Science 300:767-772(2003).
Rogers S.A.,et al.Br. J. Haematol. 119:112-114(2002).
Rush J.,et al.Nat. Biotechnol. 23:94-101(2005).