

MEPCE Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS16077**Specification**

MEPCE Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	Q7L2J0
Reactivity	Human, Rat, Monkey
Host	Goat
Clonality	Polyclonal
Calculated MW	74kDa KDa

MEPCE Antibody (Internal) - Additional Information**Gene ID** 56257**Other Names**

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

Target/Specificity

Human MEPCE.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

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

MEPCE Antibody (Internal) - 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 (Internal) - Protocols

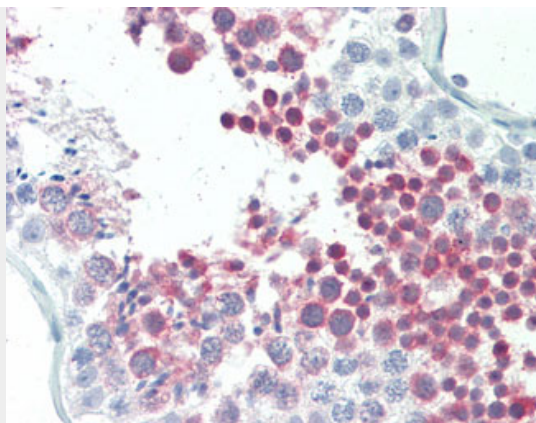
Provided below are standard protocols that you may find useful for product applications.

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

MEPCE Antibody (Internal) - Images



Antibody (1 ug/ml) staining of Rat Testis lysate (35 ug protein in RIPA buffer).



Anti-MEPCE antibody IHC staining of human testis.

MEPCE Antibody (Internal) - 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 (Internal) - 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).