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MAEL Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8889b

Specification

MAEL Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q96JY0

MAEL Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 84944

Other Names
Protein maelstrom homolog, MAEL

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8889b was selected from the C-term region of human MAEL. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MAEL Antibody (C-term) Blocking Peptide - Protein Information

Name MAEL

Function
Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with piP-bodies suggests a participation in the secondary piRNAs metabolic process. Required for the localization of germ-cell factors to the meiotic nuage (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q8BVN9}. Nucleus {ECO:0000250|UniProtKB:Q8BVN9}. Note=Component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis. Specifically localizes to piP-bodies, a subset

of the nuage which contains secondary piRNAs (By similarity). {ECO:0000250|UniProtKB:Q8BVN9}

Tissue Location
Testis-specific. Expressed in various cancer cell lines, probably due to demethylation of its promoter {ECO:0000269|PubMed:19693694, ECO:0000269|Ref.1}

MAEL Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MAEL Antibody (C-term) Blocking Peptide - Images

MAEL Antibody (C-term) Blocking Peptide - Background

MAEL plays a central role during spermatogenesis by repressing transposable elements and prevent their mobilization, which is essential for the germline integrity. It acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Its association with piP-bodies suggests a participation in the secondary piRNAs metabolic process. Required for localization of germ-cell factors to the meiotic nuage (By similarity).

MAEL Antibody (C-term) Blocking Peptide - References

Ehret,G.B., et.al., Eur. J. Hum. Genet. 17 (12), 1650-1657 (2009)Xiao,L., et.al., Mol. Biol. Rep. (2009)