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Mes-4 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP1965c

Specification

Mes-4 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9NH52

Mes-4 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 179824

Other Names
Histone-lysine N-methyltransferase mes-4, Maternal-effect sterile protein 4, mes-4

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1965c was selected from the Center region of human Mes-4. 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.

Mes-4 Antibody (Center) Blocking Peptide - Protein Information

Name mes-4 {ECO:0000312|WormBase:Y2H9A.1}

Function
Histone methyltransferase. Dimethylates 'Lys-36' of histone H3, a specific tag for epigenetic transcriptional activation. Plays a central role in early development and is responsible for all H3 'Lys- 36' dimethylation until about the 40-cell stage. Indirectly involved in the global inactivation of the X chromosomes in germline cells, possibly by excluding the mes-2-mes-3-mes-6 repressive Polycomb complex from the autosomes (PubMed:12077420, PubMed:16968818). Not related to transcription elongation (PubMed:12077420, PubMed:16968818). Required for small-RNA-induced H3K27 trimethylation (PubMed:26365259). May suppress sensitivity to RNAi (PubMed:<a href="http://www.uniprot.org/citations/16507136"

target="_blank">16507136). May regulate the expression of genes required for vulval development (PubMed:16507136, PubMed:16710447).

Cellular Location
Nucleus. Chromosome. Note=Specifically associated with the autosomes and with the distal tip of chromosome X. Colocalizes with methylated 'Lys-4' of histone H3

Tissue Location
In adults, it is predominantly expressed in the germline, and weakly expressed in intestinal cells

Mes-4 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

Mes-4 Antibody (Center) Blocking Peptide - Images

Mes-4 Antibody (Center) Blocking Peptide - Background

Mes-4 is a histone methyltransferase. This protein dimethylates 'Lys-36' of histone H3, a specific tag for epigenetic transcriptional activation. Mes-4 plays a central role in early development and is responsible for all H3 'Lys-36' dimethylation until about the 40-cell stage. It appears to be indirectly involved in the global inactivation of the X chromosomes in germ line cells, possibly by excluding the mes-2-mes-3-mes-6 repressive Polycomb complex from the autosomes.