

Recombinant Human HMGB4

Catalog No: #GP10476



Package Size: #GP10476-1 100ug

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Description

Product Name	Recombinant Human HMGB4
Brief Description	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	high mobility group box 4
Other Names	dJ1007G16.5
Accession No.	Swissprot:Q8WW32Gene Accession:BC021180
Uniprot	Q8WW32
GeneID	127540;
Storage	-20~-80°C, pH 7.6 PBS

Background

High mobility group protein B4 is a transcription factor that in humans is encoded by the HMGB4 gene. HMGB4 is strongly and preferentially expressed in the adult mouse testis and weakly in the brain, but not in many other tissues. HMGB4 associates with chromatin, and in transfection assays, in contrast to HMGB1, it acts as a potent transcriptional repressor. During spermatogenesis, HMGB4 is present in the euchromatin of late pachytene spermatocytes and haploid round spermatids, whereas stronger expression is observed during the elongation phase, where it localizes to the basal pole of the nucleus in a manner mutually exclusive with H1FNT (H1T2) localized at the apical pole. HMGB4 basal localization is lost in H1FNT-mutant spermatids, showing that H1FNT provides a positional cue for organizing chromatin domains within the nucleus. These results show that HMGB4 and H1FNT specify distinct chromatin domains at the apical and basal poles of the elongating spermatid nucleus.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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