10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Me2-H3(K9) Antibody Blocking peptide

Synthetic peptide
Catalog # BP1051b

Specification

Me2-H3(K9) Antibody Blocking peptide - Product Information

Primary Accession Q6NXT2

Me2-H3(K9) Antibody Blocking peptide - Additional Information

Gene ID 440093

Other Names
Histone H33C, Histone H35, H3F3C

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1051b was selected from the 2Me region of human Methyl-H3-mK9(2Me). 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.

Me2-H3(K9) Antibody Blocking peptide - Protein Information

Name H3-5 (HGNC:33164)

Function
Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Hominid-specific H3.5/H3F3C preferentially colocalizes with euchromatin, and it is associated with actively transcribed genes.

Cellular Location
Nucleus. Chromosome.

Tissue Location
Specifically expressed in the seminiferous tubules of testis.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Me2-H3(K9) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Me2-H3(K9) Antibody Blocking peptide - Images

Me2-H3(K9) Antibody Blocking peptide - Background

The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. This protein is a core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

Me2-H3(K9) Antibody Blocking peptide - References

Scherer,S.E., Nature 440 (7082), 346-351 (2006)