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Me1-H4(K20) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3655a

Specification

Me1-H4(K20) Antibody Blocking peptide - Product Information

Primary Accession P62805

Me1-H4(K20) Antibody Blocking peptide - Additional Information

Gene ID 121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370

Other Names
Histone H4, HIST1H4A, H4/A, H4FA

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3655a was selected from the region of human hH4-K20[Me1]. 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.

Me1-H4(K20) Antibody Blocking peptide - Protein Information

Name H4C1

Synonyms H4/A, H4FA, HIST1H4A

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.

Cellular Location
Nucleus. Chromosome.

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Me1-H4(K20) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Me1-H4(K20) Antibody Blocking peptide - Images

Me1-H4(K20) Antibody Blocking peptide - Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures.

Me1-H4(K20) Antibody Blocking peptide - References

Yan,D., et.al., Biochem. J. 408 (1), 113-121 (2007)