

## H4-K20 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5660a

## **Specification**

### H4-K20 Antibody (N-term) - Product Information

Application WB,E
Primary Accession P62805

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 11367
Antigen Region 1-30

## H4-K20 Antibody (N-term) - 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

This H4-K20 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human H4-K20.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

H4-K20 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## H4-K20 Antibody (N-term) - 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**

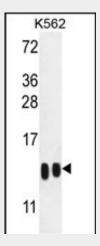
Nucleus {ECO:0000250|UniProtKB:P62806}. Chromosome. Note=Localized to the nucleus when acetylated in step 11 spermatids. {ECO:0000250|UniProtKB:P62806}

# H4-K20 Antibody (N-term) - Protocols

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

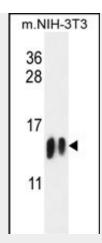
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## H4-K20 Antibody (N-term) - Images



H4-K20 Antibody (N-term) (Cat. #AP5660a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the H4 antibody detected the H4-K20(arrow). From left to right , the Sample Lot# is SA090513AM?SA090513AN .





H4-K20 Antibody (N-term) (Cat. #AP5660a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the H4 antibody detected the H4-K20 (arrow). From left to right ,the Sample Lot# is SA090513AM?SA090513AN .

# H4-K20 Antibody (N-term) - 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.

# H4-K20 Antibody (N-term) - References

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