

**H4-K20 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5660a**

**Specification**

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

Application	WB,E
Primary Accession	<a href="#">P62805</a>
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

**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

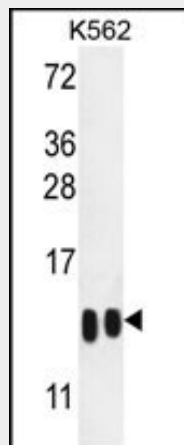
Nucleus. Chromosome.

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

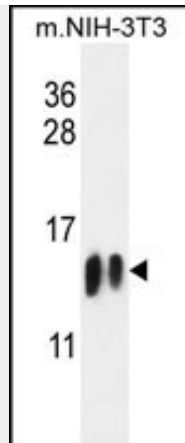
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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)