

**HMGN1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14219a****Specification**

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**HMGN1 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [P05114](#)

**HMGN1 Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 3150

**Other Names**

Non-histone chromosomal protein HMG-14, High mobility group nucleosome-binding domain-containing protein 1, HMGN1, HMG14

**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.

**HMGN1 Antibody (N-term) Blocking Peptide - Protein Information**

**Name** HMGN1

**Synonyms** HMG14

**Function**

Binds to the inner side of the nucleosomal DNA thus altering the interaction between the DNA and the histone octamer. May be involved in the process which maintains transcribable genes in a unique chromatin conformation. Inhibits the phosphorylation of nucleosomal histones H3 and H2A by RPS6KA5/MSK1 and RPS6KA3/RSK2 (By similarity).

**Cellular Location**

Nucleus. Cytoplasm. Note=Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus

**HMGN1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **HMGN1 Antibody (N-term) Blocking Peptide - Images**

#### **HMGN1 Antibody (N-term) Blocking Peptide - Background**

Chromosomal protein HMG14 and its close analog HMG17 (MIM163910) bind to the inner side of the nucleosomal DNA, potentially altering the interaction between the DNA and the histone octamer. The 2 proteins may be involved in the process that maintains transcribable genes in a unique chromatin conformation. Their ubiquitous distribution and relative abundance, as well as the high evolutionary conservation of the DNA-binding domain of the HMG14 family of proteins, suggest that they may be involved in an important cellular function.

#### **HMGN1 Antibody (N-term) Blocking Peptide - References**

Rattner, B.P., et al. Mol. Cell 34(5):620-626(2009) Cherukuri, S., et al. Mol. Biol. Cell 19(5):1816-1824(2008) Zhu, N., et al. Mol. Cell. Biol. 27(24):8859-8873(2007) Jiang, X.G., et al. Biochem. Biophys. Res. Commun. 345(4):1497-1503(2006) Hu, Y.H., et al. BMC Genomics 7, 155 (2006) :