

## HMGN1/2/3/4 (Acetyl Lys27/33/31) Rabbit pAb

CatalogNo: YK0146

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 12kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:1000-2000**

**ELISA 1:5000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human HMGN1/2/3/4 (Acetyl Lys27/K33/K31)

**Specificity** This antibody detects endogenous levels of HMGN1/2/3/4 only when acetylated at Human:K27/K31/K33/K31, Mouse:K26/K31/K33, Rat:K31/K33. This antibody does not recognize acetylated at other sites. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LSAkP

## Target Information

**Gene name** HMGN1 HMG14

**Protein Name** HMGN1/2/3/4 (Acetyl Lys27/K33/K31)

Organism	Gene ID	UniProt ID
Human	<a href="#">3150</a> ;	<a href="#">P05114</a> ; <a href="#">P05204</a> ; <a href="#">Q15651</a> ; <a href="#">O00479</a> ;
Mouse	<a href="#">15312</a> ;	<a href="#">P18608</a> ;

**Cellular Localization** Nucleus. Cytoplasm. Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus.

**Function** 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. ,mass spectrometry: PubMed:10739259 ,PTM: Phosphorylation on Ser-21 and Ser-25 weakens binding to nucleosomes and increases the rate of H3 phosphorylation (By similarity) . Phosphorylation favors cytoplasmic localization. ,RNA editing: Partially edited. A new initiator methionine may be created by a single uridine insertion in the 5'-UTR , causing an N-terminal extension of 45 amino acids. The existence of the RNA edited version is supported by direct protein sequencing by MS/MS of the following peptides specific to that version: 23-31 and 40-48. The RNA edited version is called ET-HMGN1. ,similarity: Belongs to the HMGN family. ,subcellular location: Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus. ,

## Validation Data

## Contact information

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Please scan the QR code to access additional product information:  
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**(Acetyl Lys27/33/31)**  
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