

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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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 | 3150 ; | P05114 ; P05204 ; Q15651 ; O00479 ; |
| Mouse | 15312 ; | P18608 ; |

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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(Acetyl Lys27/33/31)
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