# HMGN1/2/3/4 (Acetyl Lys27/K33/K31) mouse mAb

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| **Catalog No** | BYmab-00909 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | WB |
| **Gene Name** | HMGN1 HMG14 |
| **Protein Name** | HMGN1/2/3/4 (Acetyl Lys27/K33/K31) |
| **Immunogen** | Synthesized peptide derived from human HMGN1/2/3/4 (Acetyl Lys27/K33/K31) |
| **Specificity** | This antibody detects endogenous levels of Human,Mouse,Rat HMGN1/2/3/4 (Acetyl Lys27/K33/K31) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse,IgG |
| **Purification** | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | Non-histone chromosomal protein HMG-14 (High mobility group nucleosome-binding domain-containing protein 1) |
| **Observed Band** | 12kD |
| **Cell Pathway** | Nucleus. Cytoplasm. Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus. |
| **Tissue Specificity** | |
| **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 an 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 |

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| | following peptides specific to that version: 23-31 and 40-48. The RNA edited version is |
| **Background** | The protein encoded by this gene binds nucleosomal DNA and is associated with transcriptionally active chromatin. Along with a similar protein, HMG17, the encoded protein may help maintain an open chromatin configuration around transcribable genes. [provided by RefSeq, Aug 2011], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images