

## HMGA1 (Acetyl Lys65) Rabbit pAb

CatalogNo: YK0142

### 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 HMG-I/HMG-Y (Acetyl Lys65)

**Specificity** This antibody detects endogenous levels of Human, Mouse, Rat HMG-I/HMG-Y (Acetyl Lys65). 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): GSKNK

## Target Information

**Gene name** HMGA1 HMG1Y  
**Protein Name** HMG-I/HMG-Y (Acetyl Lys65)

Organism	Gene ID	UniProt ID
Human	<a href="#">3159</a> ;	<a href="#">P17096</a> ;
Mouse	<a href="#">111241</a> ;	<a href="#">P17095</a> ;
Rat	<a href="#">117062</a> ;	<a href="#">Q8K585</a> ;

**Cellular Localization** Nucleus. Chromosome.

**Function** Disease:A chromosomal aberration involving HMGA1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with RAD51L1.,Function:HMG-I/Y bind preferentially to the minor groove of A+T rich regions in double stranded DNA. It is suggested that these proteins could function in nucleosome phasing and in the 3'-end processing of mRNA transcripts. They are also involved in the transcription regulation of genes containing, or in close proximity to A+T-rich regions.,mass spectrometry:With 1 acetyl and 2 phosphate groups PubMed:15302935,mass spectrometry:With 1 acetyl and 3 phosphate groups PubMed:15302935,mass spectrometry:With 1 acetyl, 1 methyl and 2 phosphate groups PubMed:15302935,mass spectrometry:With 1 acetyl, 1 methyl and 3 phosphate groups PubMed:15302935,mass spectrometry:With 1 acetyl, 2 methyl and 2 phosphate groups PubMed:15302935,mass spectrometry:With 1 acetyl, 2 methyl and 3 phosphate groups PubMed:15302935,PTM:Constitutively phosphorylated on two or three sites. Phosphorylated upon DNA damage, probably by ATM or ATR. Hyperphosphorylated at early stages of apoptosis, followed by dephosphorylation and methylation, which coincides with chromatin condensation. Isoform HMG-Y can be phosphorylated by HIPK2.,PTM:HMG-Y is not methylated.,PTM:Methylation at Arg-58 is mutually exclusive with methylation at Arg-60.,similarity:Belongs to the HMGA family.,similarity:Contains 3 A.T hook DNA-binding domains.,subunit:Interacts with HIPK2 (By similarity). Interacts with HIV-1 pre-integration complex.,

## Validation Data

## Contact information

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