

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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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 HMGY
Protein Name HMG-I/HMG-Y (Acetyl Lys65)

Organism	Gene ID	UniProt ID
Human	3159 ;	P17096 ;
Mouse	111241 ;	P17095 ;
Rat	117062 ;	Q8K585 ;

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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