



HMGN1/2/3/4 rabbit pAb

Catalog No	YP-Ab-02269
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
Gene Name	HMGN1 HMG14
Immunogen	Synthesized peptide derived from human HMGN1/2/3/4 AA range: 1-50
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat HMGN1/2/3/4
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HMG14;HMGN1;HMGN1/2/3/4;HMGN1 HMG14;Non-histone chromosomal protein HMG-14 (High mobility group nucleosome-binding domain-containing protein 1)
Observed Band	17kDa
Calculated Molecular Weight	11kDa
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 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

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