10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

phospho-HMG14 (Ser20+Ser24) Rabbit pAb

Catalog # AP96983

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P05114
Other Accession	P05114
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10659
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human HMG14 around the phosphorylation site of Ser20+Ser24
Epitope Specificity	RR(p-S)ARL(p-S)AK
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the HMGN family.
Post-translational modifications	Phosphorylation on Ser-21 and Ser-25 weakens binding to nucleosomes and increases the rate of H3 phosphorylation (By similarity). Phosphorylation favors cytoplasmic localization.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	3150
Other Names	HMG14; HMG-14; HMGN1_BOVIN; HMGN1; High mobility group nucleosome-binding domain-containing protein 1; HMGN1_HUMAN; HMGN1_MOUSE; high mobility group nucleosome binding domain 1; high-mobility group (nonhistone chromosomal) protein 14; high-mobility group nucleosome binding domain 1; high-mobility group nucleosome binding 1; nonhistone chromosomal protein HMG-14; HMGN1 | HMG14 (phospho-S20/S24); p-HMG14; phospho-HMG14; p-HMGN1; HMGN1 | HMG14 (phospho-Ser20/Ser24)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HMGN1
Synonyms	HMG14
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 (By similarity).
Cellular Location	Nucleus. Cytoplasm. Note=Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.