

ARG66440 anti-HMGN1 phospho (Ser21) antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HMGN1 phospho (Ser21)
Tested Reactivity	Hu, Mk
Tested Application	ICC/IF, IHC-P
Specificity	The antibody detects endogenous levels of HMG-14 protein only when phosphorylated at S21.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HMGN1
Species	Human
Immunogen	Phosphospecific peptide around Ser21 of Human HMGN1.
Conjugation	Un-conjugated
Alternate Names	HMG14; Non-histone chromosomal protein HMG-14; High mobility group nucleosome-binding domain-containing protein 1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	1:100 - 1:300
Application Note	IHC-P: Antigen Retrieval: High-pressure and temperature EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

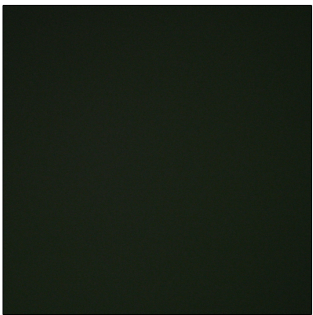
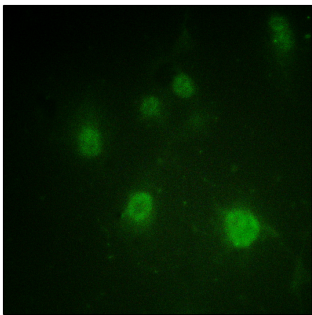
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

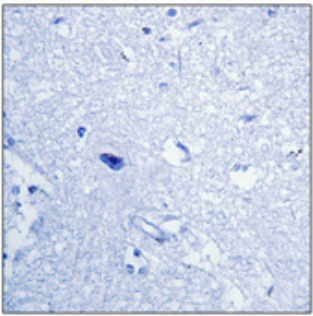
Gene Symbol	HMGN1
Gene Full Name	high mobility group nucleosome binding domain 1
Background	The protein encoded by this gene binds nucleosomal DNA and is associated with transcriptionally active chromatin. Along with a similar protein, HMG17, the encoded protein may help maintain an open chromatin configuration around transcribable genes. [provided by RefSeq, Aug 2011]
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). [UniProt]
Calculated Mw	11 kDa
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. [UniProt]
Cellular Localization	Nucleus. Cytoplasm. Note=Cytoplasmic enrichment upon phosphorylation. The RNA edited version localizes to the nucleus. [UniProt]

Images



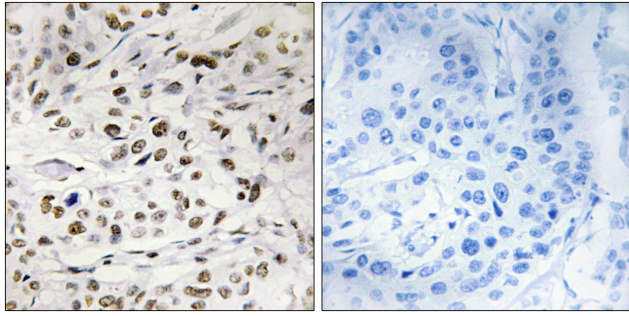
ARG66440 anti-HMGN1 phospho (Ser21) antibody ICC/IF image

Immunofluorescence: COS7 cells stained with ARG66440 anti-HMGN1 phospho (Ser21) antibody. The picture on the right is blocked with the phospho peptide.



ARG66440 anti-HMGN1 phospho (Ser21) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain stained with ARG66440 anti-HMGN1 phospho (Ser21) antibody at 1:100, 4°C, overnight. Antigen Retrieval: High-pressure and temperature EDTA buffer (pH 8.0). The picture on the right is blocked with the phospho peptide.



ARG66440 anti-HMGN1 phospho (Ser21) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma stained with ARG66440 anti-HMGN1 phospho (Ser21) antibody. The picture on the right is blocked with the phospho peptide.