





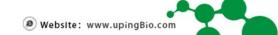
Histone H4 (Acetyl Lys21) rabbit pAb

Catalog No YP-Ab-00898 Isotype IgG Reactivity Human;Mouse;Rat Applications WB; ELISA Gene Name HIST1H4A H4/A H4FA; HIST1H4B H4/I H4FI; HIST1H4C H4/G H4FG; HIST1H4D H4/I H4FB; HIST1H4B H4/I H1ST1H4F H4/C H4FC; HIST1H4F H4/C H4FC; HIST1H4K H4/I H4/D H4FD; HIST1H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST1H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST1H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST1H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST3H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST3H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FD; HIST3H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FO; HIST3H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FO; HIST3H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN HIST2H4B H4/O H4FO; HIST3H4 H4/K H4FK; HIST2H4A H4/N H4F2 H4FN H4F2; HIST3H4 H4/K H4FK; HIST2H4A H4/N H4F2 H4FN H4F2; HIST3H4 H4/K H4FK; HIST3H4K H4FK; HIST3H4K H4/K H4FK; HIST3H4K H4FK; HIST3H		
Reactivity	Catalog No	YP-Ab-00898
Applications WB; ELISA Gene Name HIST1H4A H4/A H4FA; HIST1H4B H4/I H4FI; HIST1H4C H4/G H4FG; HIST1H4H H4/H H4FB; HIST1H4H H4/F H4FC; HIST1H4H H4/H H4FB; HIST1H4H H4/H H4FC; HIST1H4H H4/F H4FC; HIST2H4A H4/N H4F2 H4FN HIST2H4; HIST2H4B H4/O H4FO; HIST4H4 Protein Name Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) 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 290% Storage Stability -20°C/1 year Synonyms Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, negative regulation of megakaryocyte differentiation, negative regulation of megalative regulation of myeloid cell differentiation, procyte differentiation, procyte differentiation, procyte differentiation, procyte mediated signaling, chromosome organization, mediater assigner assembly, protein-DNA complex subunit organization of megalation of myeloid cell differentiation, procyte differentiation, procyte mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Isotype	IgG
Gene Name HIST1H4A H4/A H4FA; HIST1H4B H4/I H4FI; HIST1H4C H4/G H4FG; HIST1H4D H4/B H4/B H4FB; HIST1H4B H4/I H4FI; HIST1H4F H4/C H4FC; HIST1H4K H4/D H4FC; HIST1H4K H3/D H4FC; HIST1H4K H3/D H4FC; HIST2H4; HIST2H4B H4/O H4FC; HIST4H4 Protein Name Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) 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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex subunit organization, cellular macromolecular complex subunit organization of megakaryocyte differentiation, negative regulation of cell differentiation, regulation of megakaryocyte differentiation, paspative regulation of megakaryocyte differentiation, paspative regulation of molecular complex assembly, protein-DNA complex	Reactivity	Human;Mouse;Rat
HIST1H4D H4/B H4FB; HIST1H4E H4/J H4FJ; HIST1H4F H4/C H4FC; HIST1H4H H4/H H4HH H1; HIST1H4H, HIST1H4H, H1BT1H4H H2/H H4FH; HIST1H4H, H1BT1H4H H2/H H4FH; HIST1H4H, H1BT1H4H H2/H H4FE; HIST2H4B H4/O H4FO; HIST4H4 Protein Name Histone H4 (Acetyl Lys21) Immunogen Synthesized peptide derived from human Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) 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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, melature macromolecular complex assembly mucleosome organization, meadive regulation of myeloid cell differentiation, regulation of myel	Applications	WB; ELISA
Immunogen Synthesized peptide derived from human Histone H4 (Acetyl Lys21) Specificity This antibody detects endogenous levels of Human,Mouse,Rat Histone H4 (Acetyl Lys21) 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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromosionelecular complex assembly, nucleosome eassembly, intracellular macromolecular complex assembly, negative regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell of firementiation, regulation of myeloid cell of firementiation, peaptive regulation of myeloid cell of firementiation, peaptive regulation of myeloid cell of firementiation, peaptive regulation of myeloid cell of firementiation, prepative regulation of myeloid cell of firementiation, prepative regulation	Gene Name	HIST1H4D H4/B H4FB; HIST1H4E H4/J H4FJ; HIST1H4F H4/C H4FC; HIST1H4H H4/H H4FH; HIST1H4I H4/M H4FM; HIST1H4J H4/E H4FE; HIST1H4K H4/D H4FD; HIST1H4L H4/K H4FK; HIST2H4A H4/N H4F2 H4FN
Specificity This antibody detects endogenous levels of Human, Mouse, Rat Histone H4 (Acetyl Lys21) 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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex assembly, nucleosome organization, cellular macromolecular complex assembly, nucleosome organization, cellular macromolecular complex of endities of megakaryocyte differentiation, negative regulation of of englation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex organization, macromolecular complex subunit organization, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Protein Name	Histone H4 (Acetyl Lys21)
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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex subunit organization, negulation of myeloid cell differentiation, regulation of myeloid cell differentiation, progrative regulation of myeloid cell differentiation, p	Immunogen	Synthesized peptide derived from human Histone H4 (Acetyl Lys21)
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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex subunit organization, negulation of myeloid cell differentiation, regulation of myeloid cell differentiation, regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, negative regulation of myeloid cell differentiation, proposome organization, macromolecular complex assembly, protein-DNA complex	Specificity	This antibody detects endogenous levels of Human, Mouse, Rat Histone H4 (Acetyl Lys21)
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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, regulation of myeloid cell differentiation, negative regulation of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, nucleosome organization of myeloid cell differentiation, negative regulation of myeloid cell differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Formulation	
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 Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, regulation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex sessembly, protein-DNA complex	Source	Polyclonal, Rabbit,IgG
Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of myeloid cell differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Purification	
Purity ≥90% Storage Stability -20°C/1 year Synonyms Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, ne	Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Synonyms Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex assembly, nucleosome organization, megulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Concentration	1 mg/ml
Synonyms Histone H4 Observed Band 12kD Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, regulation of myeloid cell differentiation, negative regulation of cell differentiation, regulation of megakaryocyte differentiation, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Purity	≥90%
Observed Band Cell Pathway Nucleus. Chromosome. Tissue Specificity Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Storage Stability	-20°C/1 year
Tissue Specificity DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Synonyms	Histone H4
Tissue Specificity DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Observed Band	12kD
Function DNA packaging, chromatin organization, chromatin assembly or disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Cell Pathway	Nucleus. Chromosome.
disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex	Tissue Specificity	
	Function	disassembly, nucleosome assembly, intracellular signaling cascade, second-messenger-mediated signaling, chromatin assembly, cellular macromolecular complex subunit organization, cellular macromolecular complex assembly, nucleosome organization, macromolecular complex subunit organization, negative regulation of cell differentiation, regulation of myeloid cell differentiation, negative regulation of myeloid cell differentiation, regulation of megakaryocyte differentiation, negative regulation of megakaryocyte differentiation, phosphoinositide-mediated signaling, chromosome organization, macromolecular complex assembly, protein-DNA complex



UpingBio technology Co.,Ltd

📞 Tel: 400-999-8863 🗷 Emall:Upingbio.163.com



Background

function:Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.,PTM:Acetylation at Lys-6, Lys-9, Lys-13 and Lys-17 occurs in coding regions of the genome but not in heterochromatin.,PTM:Citrullination at Arg-4 by PADI4 impairs methylation.,PTM:Monomethylated, dimethylated or trimethylated at Lys-21. Monomethylation is performed by SET8. Trimethylation is performed by SUV420H1 and SUV420H2 and induces gene silencing.,PTM:Monomethylation at Arg-4 by PRMT1 favors acetylation at Lys-9 and Lys-13. Demethylation is performed by JMJD6.,PTM:Sumoylated, which is associated with transcriptional repression.,PTM:Ubiquitinated by the CUL4-DDB-RBX1 complex in response to ultraviolet irradiation. This may weaken the interaction between histones and DNA and facilitate DNA accessibility to repair proteins.,similarity:Belongs to the histone H4 family.,subunit:The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA.,

matters needing attention

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