

Histone H4 (Acetyl Lys21) Rabbit Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP10434
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from human Histone H4 (Acetyl Lys21)
Mol wt	11330
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	Histone H4
Synonyms	Histone H4 ;Acetyl Lys21; Histone H4

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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.|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.|

Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year