

## Histone H4 (Tri Methyl Lys21) Rabbit Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP10437
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	100ul, 50ul, 20ul
<b>Immunogen</b>	Synthesized peptide derived from human Histone H4 (Tri Methyl Lys21)
<b>Mol wt</b>	11330
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Histone H4
<b>Synonyms</b>	Histone H4 ;Tri Methyl 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