



# Rabbit Anti-Histone H3Q5ser polyclonal antibody (CABT-RM106)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Specifically detects Histone H3.1 serotonylated at glutamine 5 position.
<b>Target</b>	Histone H3Q5ser
<b>Immunogen</b>	KLH-conjugated linear peptide corresponding to 10 amino acids from the N-terminal region of human Histone H3.1 serotonylated on glutamine 5.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse
<b>Purification</b>	Affinity Purified
<b>Conjugate</b>	unconjugated
<b>Applications</b>	CHIPseq, Dot, WB
<b>Epitope</b>	N-terminus
<b>Molecular Weight</b>	~16 kDa observed; 15.51 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
<b>Preservative</b>	0.05% sodium azide

## BACKGROUND

### Introduction

Histone H3.1 is encoded by the HIST3H3 gene in human. Histone H3 has two main variants, H3.1 and H3.3, which show different genomic localization patterns in animals. Histone H 3.1 is a core component of nucleosome that is present only in mammals. It is expressed during S phase, then its expression decreases significantly as cell division slows down during the process of differentiation. Histone H 3.1 expression is shown to be replication dependent. It serves as the canonical histone, which is incorporated during DNA replication. Histone 3.1 can also undergo serotonylation of glutamine at position 5 (Q5ser) in organisms that produce serotonin. This H3Q5ser antibody only detects signal when the nucleosomes have been transamidated with serotonin and does not react with unmodified version.

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### Keywords

HIST3H3; histone cluster 3, H3; H3 histone family, member T; H3FT, histone 3, H3; histone H3.1t; H3/g; H3t; H3/t; histone 3, H3; H3 histone family, member T; H3.4; H3FT; MGC126886; MGC126888

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## GENE INFORMATION

### Entrez Gene ID

[8290](#)

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### UniProt ID

[Q16695](#)

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