



# Rabbit Anti-Human Histone H3 (Methyl-Lys36) monoclonal antibody, clone 25I7M32 (CABT-L1350)

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

## PRODUCT INFORMATION

<b>Specificity</b>	This antibody may react with many other species.
<b>Target</b>	Histone H3
<b>Immunogen</b>	Methylated peptide (Lys36) corresponding to Human H3 (aa 32-40)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	25I7M32
<b>Purification</b>	Protein A Purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ChIP, FC, ICC, IF, WB
<b>Format</b>	Liquid
<b>Concentration</b>	0.5 mg/ml
<b>Buffer</b>	PBS, pH 7.2
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

# BACKGROUND

## Introduction

Histone H3 is one of the DNA-binding proteins found in the chromatin of all eukaryotic cells. H3 along with four core histone proteins binds to DNA forming the structure of the nucleosome. Histones play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. Post translationally, histones are modified in a variety of ways to either directly change the chromatin structure or allow for the binding of specific transcription factors. The N-terminal tail of histone H3 protrudes from the globular nucleosome core and can undergo several different types of post-translational modification that influence cellular processes. These modifications include the covalent attachment of methyl or acetyl groups to lysine and arginine amino acids and the phosphorylation of serine or threonine.

## Keywords

HTR12;histone H3;CENH3;Centromeric histone CENH3;F6F3.17;F6F3\_17;Histone H3 like centromeric protein HTR12;HTR 12;Histone superfamily protein HTR12;FUNCTIONS IN: DNA binding;INVOLVED IN: double fertilization forming a zygote and endosperm;LOCAT