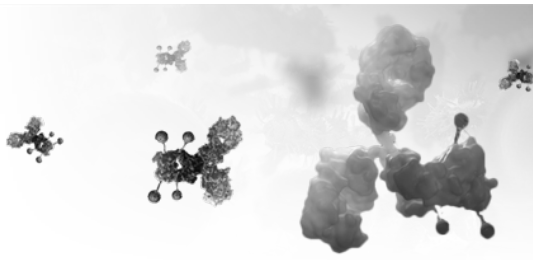

Rabbit Anti-Human Histone H3 (Methyl-Lys4) monoclonal antibody, clone 2I5M42 (CABT-L1351)

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

PRODUCT INFORMATION

Specificity	This antibody may react with many other species.
Target	Histone H3
Immunogen	Methylated peptide (Lys4) corresponding to human Histone H3 (aa 2-11)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	2I5M42
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.2
Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

BACKGROUND

Introduction	Histone octamers are an essential component of the nucleosomal complex with key roles in chromatin packaging and target gene transcription. They undergo various post-translational modifications including methylation, acetylation and phosphorylation to facilitate chromatin regulation. These modifications in turn serve as epigenetic markers for transcriptional status of a gene and landing sites for transcriptional complexes. Methylation of histones is regulated by histone methyl transferases and histone demethylases. Monomethylation of Histone 3 on Lysine 4 (H3K4me1) is a chromatin mark associated with transcriptionally active regions of the chromatin enriched in the H3K27ac mark. It has also been implicated as a marker for 'poised' chromatin state of 'potentially' active genes where it overlaps with H3K27me3 modification.
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

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