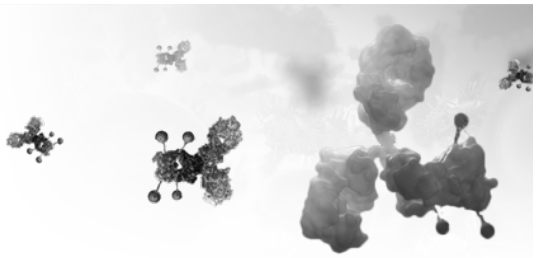

Rabbit Anti-Human Histone H3 (Di-Methyl-Lys4) monoclonal antibody, clone 35I9M20 (CABT-L1344)

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 4-10)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	35I9M20
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, 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.

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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. Methylation of histones is regulated by histone methyl transferases and histone demethylases. These modifications in turn serve as epigenetic markers for transcriptional status of a gene and landing sites for transcriptional complexes. Several ChIP-seq studies indicate that Histone 3 dimethylated on Lysine 4 (H3K4me2) is enriched at transcription factor binding regions. Hence H3K4me2 is a prominent chromatin marker for cis-regulatory elements containing a stretch of transcription factor consensus sites.
Keywords	HTR12;histone H3;CENH3;Centromeric histone CENH3;F6F3.17;F6F3_17;Histone H3 like centromeric protein HTR12;HTR 12;Histone superfamily protein HTR12

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