

Product datasheet for **TA397481**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	WB: 1:500 IHC: 1:500 IF: 1:500 ChIP: 2-5µg/million cells
Reactivity:	C. elegans, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [Monomethyl Lys9] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic monomethylated peptide surrounding Lysine 9 of human Histone H3.2.
Specificity:	Anti-Histone H3 [Monomethyl Lys9] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3.2. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology. Cross-reactivity with Histone H3 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.7 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	histone cluster 2, H3c
Database Link:	Entrez Gene 333932 Human Entrez Gene 126961 Human Q71DI3



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Background:

Histone H3 K9 methylation is a conserved epigenetic silencer of transcription. However, for this modification to make its effect, the G9a/GLP heteromeric complex is required to methylate histone H3. Throughout development of normal tissues, DNA methylation and stable gene silencing is required to optimize cellular development. Likewise, in cancer, dysfunctions in these normal functions are required to enhance cellular proliferation. When K3K9 me1 silences the expression of RIZ1, normal apoptosis of pre-cancerous cells does not occur, and proliferation goes ahead unabated. From H3K9me1, conversion to H3K9me3 is mediated by SUV4, at transposons and pseudogenes. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Synonyms:

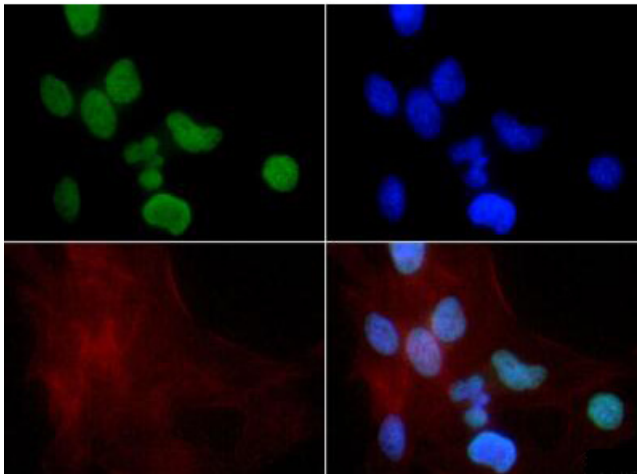
rabbit anti-Histone H3 monomethyl Lys9 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9me1

Note:

Anti-Histone H3 [Monomethyl Lys9] antibody is tested for Western Blot, Chromatin Immunoprecipitation, Dot Blot, and Immunocytochemistry/Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to Histone H3 protein by Western Blotting in HeLa histone prep lysate or the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

Protein Pathways:

Systemic lupus erythematosus

Product images:

Immunofluorescence of Rabbit Anti-Histone H3 [Monomethyl Lys9] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Monomethyl Lys9] antibody at a 1:50 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [Monomethyl Lys9] is nuclear and chromosomal. Staining: Histone H3 [Monomethyl Lys9] is expressed in green and the nuclei and actin are counterstained with DAPI (blue) and Phalloidin (red).