

Product datasheet for **TA397484**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	WB: 1:500 IHC: 1:100 IF: 1:100 ChIP: 2-5µg/million cells
Reactivity:	C. elegans, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [ac Lys9] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 9 of human Histone H3.2.
Specificity:	Anti-Histone H3 [ac 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:	0.68 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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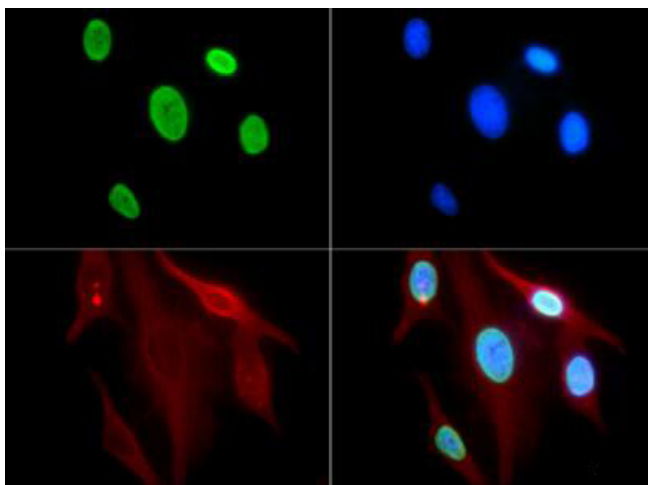
Background: Acetylation of histone H3 at the K9 residue is associated with chromosome condensation in mitotic cells. The presence of H3K9ac is correlated to H3K4 trimethylation, and their distribution is related to developmentally repressed genes in some species. It has been shown that neuron depolarization promotes intragenic histone acetylation leading toward the formation of this modification. In pituitary, dopamine receptor agonists lead toward apoptosis. However, in tumors, decreased availability and activity of these agonists, combined with decreased H3K9ac leads toward resistance to chemotherapies and cancer survival and proliferation. Nuclear receptor PPAR ' induces the enrichment of H3K9ac enrichment on downstream promoters, which has effects on transcription and ultimately nuclear receptor transactivation. 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 Ac Lys9 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9ac

Note: Anti-Histone H3 [ac Lys9] antibody is tested for Western Blot, Chromatin Immunoprecipitation, Dot Blot, and 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 [ac Lys9] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [ac Lys9] antibody at a 1:100 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [ac Lys9] is nuclear and chromosomal. Staining: Histone H3 [ac Lys9] is expressed in green.