

Product datasheet for **TA397486**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500 IHC: 1:2000 IF: 1:2000
Reactivity:	C. elegans, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [p Ser10] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phosphorylated peptide surrounding Serine 10 of human Histone H3.2.
Specificity:	Anti-Histone H3 [p Ser10] 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:	0.44 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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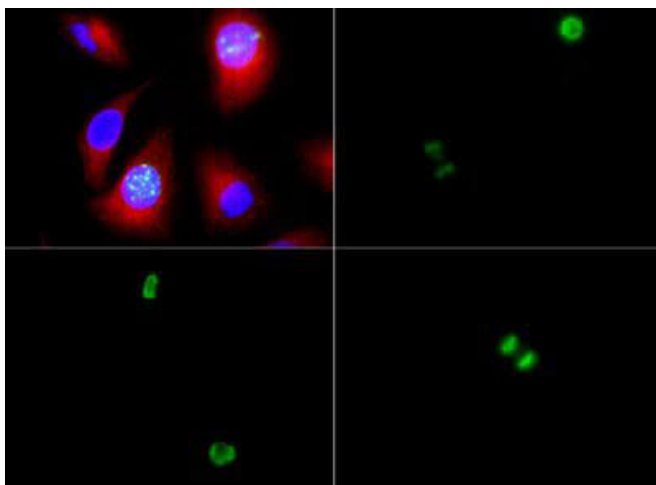
Background: H3 pS10 is typically associated with activation of transcription of genes associated with histone H3. This modification is linked to the initiation of chromatin condensation in G(2). During mitosis, H3pS10 is required for proper chromosome segregation. Formation of the H3pS10 modification seems to be regulated in part by p53, which interacts with histone modifying complexes. In development of the retina, the presence of H3pS10 is linked to the abundance of eye defects. This developmental effect of H3pS10 seems to be related to Psf2 and GPR84. The human Timeless protein (Tim) regulates the global H3pS10 phosphorylation in G2/M phase. VASP concentrations peak during mitosis in HeLa cells at the same time as H3pS10, indicating that co-responsibility for transition of G2/M phases. AURKB promotes the phosphorylation of histone H3 at pS10. 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 pS10 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3pS10

Note: Anti-Histone H3 [p Ser10] antibody is tested by Western Blot, Immunofluorescence, and Dot Blot. This antibody is useful for Immunocytochemistry and Chromatin Immunoprecipitation. 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 [p Ser10] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [p Ser10] antibody at a 1:200 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [p Ser10] is nuclear and chromosomal. Staining: Histone H3 [p Ser10] is expressed in green, nuclei and actin are counterstained with Dapi (blue) and Phalloidin (red).