

Product datasheet for **TA397487**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	WB: 1:500 IHC: 1:200 IF: 1:200 ChIP: 2-5µg/million cells
Reactivity:	C. elegans, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [p Ser10, p Thr11] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phosphorylated peptide surrounding Serine 10 and Threonine 11 of human Histone H3.2.
Specificity:	Anti-Histone H3 [p Ser10, p Thr11] 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:	1.2 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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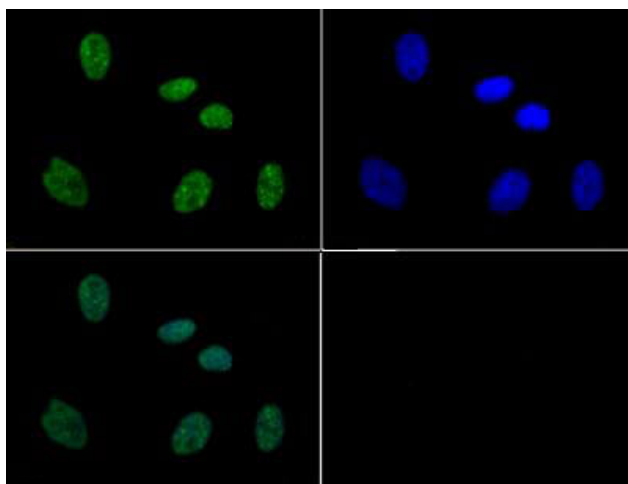
Background: When confronted with DNA damage or the lack of certain kinases like Chk1 and Aurora1, histone H3 is phosphorylated at T11, causing a reduction in acetylation of the same histone at K9 and ultimately leading to a reduction of active transcription in affected cells. When the T11 phosphorylation is combined with a typical S10 phosphorylation that is critical in chromosome condensation in metaphase, the effect on transcriptional regulation is amplified further. Phosphorylation of H3S10 is decreased by T11 phosphorylation. Thus, detection of the combined modification is critical in determining transcriptional effects, especially when contrasted against single modifications of H3. 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 pT11 antibody, H3.3B, H3.3AH3F3H3F3B, H3 histone, family 3A, histone H3.3, MGC87783, MGC87782, H3pS10/pT11

Note: Anti-Histone H3 [p Ser10, p Thr11] antibody is tested for Western Blot and Immunofluorescence. This antibody is useful for Dot Blot and Immunocytochemistry. 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 Thr11, p Ser10] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [p Thr11, 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 Thr11, p Ser10] is nuclear and chromosomal. Staining: Histone H3 [p Thr11, p Ser10] is expressed in green, nuclei are counterstained with Dapi (blue).