

Product datasheet for **TA397542**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1.0 µg/mL IF: 1:10
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Anti-Histone H3 [ac Lys9/phospho Ser10] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide with a acetylation surrounding Lysine 9 and a phosphorylation surrounding serine 10 of human Histone H3.
Specificity:	Anti-Histone H3 K9Ac/pS10 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3. Cross-reactivity with other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.25 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



[View online »](#)

Background:

Histones of the nucleosome build chromatin and undergo various post-translational modifications proven to regulate chromatin condensation and DNA accessibility. Phosphorylations on Serine 10 has been shown to facilitate chromatin condensation by its interaction with Aurora-B kinase during mitosis and is alternatively active in cell division. Serine modification is associated with IKK-alpha and Snf1 enzymes in transcriptional activation, and is modified by MSK1 and 2 which are enzymes that react to growth factors and cellular stress in immediate-early gene activation. Lysine 9 acetylations are connected with histone deposition and transcriptional activation. Anti-Histone H3 [ac Lys9/phospho Ser10] antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Synonyms:

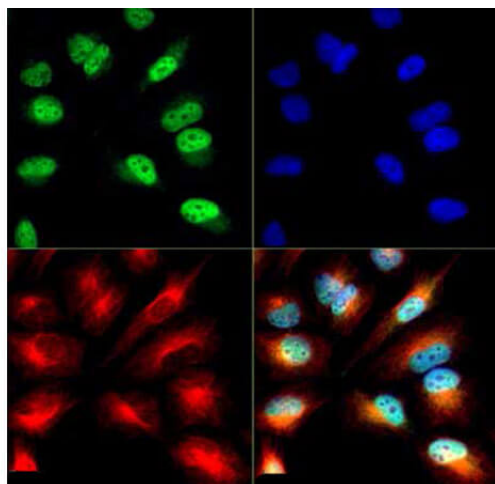
rabbit anti-Histone H3 Ac Lys9 pS10 antibody, Histone H3 antibodies, H3K9ac/pS10

Note:

Anti-Histone H3 K9-Ac/pS10 antibody is tested for Western Blot, Dot Blot, and Immunocytochemistry/Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15 kDa corresponding to Histone H3 protein by Western Blotting in NIH-3T3 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 Histone H3 [ac Lys9/phospho Ser10]: Histone H3 K9-Ac/pS10 antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).