

## Product datasheet for **TA397478**

### H3C14 Rabbit Polyclonal Antibody

#### Product data:

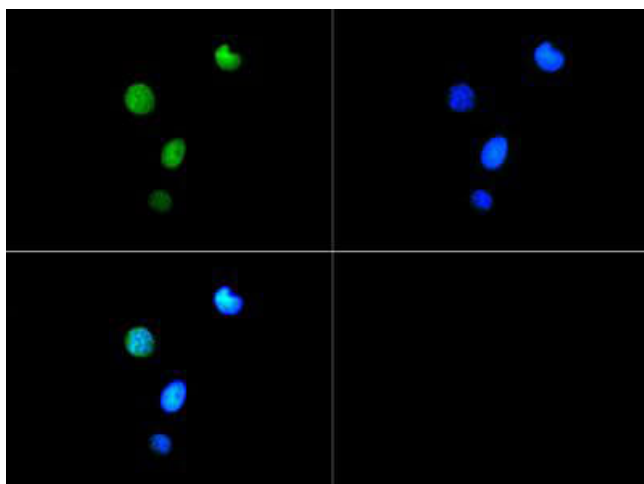
Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	<b>WB:</b> 1:500 <b>IHC:</b> 1:200 <b>IF:</b> 1:200 <b>ChIP:</b> 2-5µg/million cells
Reactivity:	C. elegans, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [Trimethyl Lys9, p Thr6] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic trimethylated/phosphorylated peptide surrounding Lysine 9/Threonine 6 of human Histone H3.2.
Specificity:	Anti-Histone H3 [Trimethyl Lys9, p Thr6] 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:	1.0 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:	<a href="#">Entrez Gene 333932 Human</a> <a href="#">Entrez Gene 126961 Human</a> <a href="#">Q71DI3</a>



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- Background:** H3K9 methylations are a conserved hallmark of heterochromatin binding domains. The trimethyl K9 version of histone H3, when coupled with a T6 phosphorylation, is related to the Oct4 and Nanog proteins in embryoid bodies. This association seems to indicate a role for this modified histone in cellular differentiation in development. The formation of this modification seems to be a result of a complicated multiple silencing process for downstream genes, which is RNAi independent. 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 trimethyl Lys9 pT6 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9me3/pT6
- Note:** Anti-Histone H3 [Trimethyl Lys9, p Thr6] antibody is tested for Western Blot, Immunocytochemistry, Immunofluorescence, Chromatin Immunoprecipitation, and Dot Blot. 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 [Trimethyl Lys9, p Thr6] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Trimethyl Lys9, p Thr6] 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 [Trimethyl Lys9, p Thr6] is nuclear and chromosomal. Staining: Histone H3 [Trimethyl Lys9, p Thr6] is expressed in green and the nuclei are counterstained with DAPI (blue).