

Product datasheet for **TA397501**

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:1000 IHC: 1:500 IF: 1:500
Reactivity:	C. elegans, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [ac Lys36] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic acetylated peptide surrounding Lysine 36 of human Histone H3.2.
Specificity:	Anti-Histone H3 [ac Lys36] 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:	Entrez Gene 333932 Human Entrez Gene 126961 Human Q71DI3



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Background:

Histone H3 acetylation at lysine 36 results from the activity of GCN5, which regulates transcription. H3K36ac is usually found in the promoters of RNA polymerase II-transcribed genes. When acetylation of this lysine is replaced by methylation, the activation of transcription is eliminated. This switch-like activity seems to determine the chromatin function found in transcription units. Set2 associates with RNA polymerase II and histone H3 at lysine 36, and seems to be responsible for proper acetylation of coding regions. The co-activity of Set2 and Rpd3S is important for ensuring that transcription of intragenic sequences does not occur, and is related to the acetylation and methylation of histone H3 at lysine 36. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Synonyms:

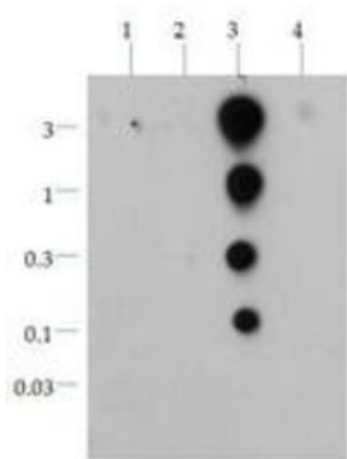
rabbit anti-Histone H3 Ac Lys36 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K36ac

Note:

Anti-Histone H3 [ac Lys36] antibody is tested for Western Blot, Immunocytochemistry, 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:

Dot Blot of Rabbit Anti-Histone H3 [Lys36 ac] Antibody. Lane 1: K36. Lane 2: K36-KMe2. Lane 3: K36-KAc. Lane 4: K36-KMe1. Load: 0.03, 0.1, 0.3, 1.0, 3.0 µg of peptide. Primary antibody: Histone H3 [Lys36 ac] for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO A overnight at 4°C.