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Product datasheet for TA397477

H3C14 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	**WB**: 1:500 **IHC**: 1:100 **IF**: 1:100 **CHiP**: 2-5µg/million cells
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [p Thr6, Dimethyl Lys9] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic dimethylated/phosphorylated peptide surrounding Lysine 9/Threonine 6 of human Histone H3.2.
Specificity:	Anti-Histone H3 [p Thr6, Dimethyl Lys9] 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:	0.49 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 HumanEntrez Gene 126961 Human Q71DI3

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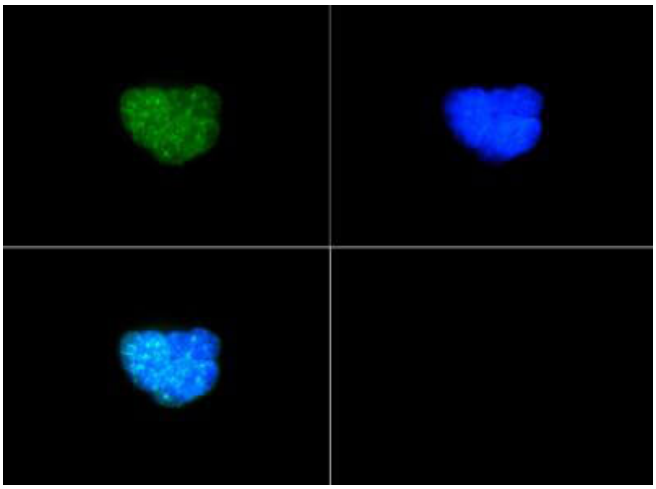
Background: The doubly modified dimethyl K9, phospho-T6 histone H3 is known to exist, but very little comprehensive information about the importance of this modification and its mechanism has been published. H3K9me2 is a histone post-translational modification that is enriched in promoters of transcriptionally active genes. It is also important in cellular differentiation and maturation. Phosphorylation of histone H3 is also associated with mitosis and meiosis, and seems to be related to developmental changes. The dual modification of H3K9me2/pT6 is still under investigation and will present more insight into the complex epigenetic code. 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 pT6 dimethyl Lys9 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3K9me2/pT6

Note: Anti-Histone H3 [p Thr6, Dimethyl Lys9] antibody is tested for Western Blot, Immunofluorescence, and ChIP. This antibody is suitable 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 Thr6, Dimethyl Lys9] Antibody. Tissue: HeLa cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [p Thr6, Dimethyl Lys9] 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 [p Thr6, Dimethyl Lys9] is nuclear and chromosomal. Staining: Histone H3 [p Thr6, Monomethyl Lys9] is expressed in green and the nuclei are counterstained with DAPI (blue).