

Product datasheet for **TA397480**

H3C14 Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ChIP, WB |
| Recommended Dilution: | WB: 2µg/mL ChIP: 2-5µg/million cells |
| Reactivity: | C. elegans, Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Histone H3 [Sym-dimethyl Arg8] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic symmetric dimethylated peptide surrounding Arginine 8 of human Histone H3.2. |
| Specificity: | Anti-Histone H3 [Sym-dimethyl Arg8] 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: | 0.52mg/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:

Chromatin is the arrangement of DNA and proteins in which chromosomes are formed. Correspondingly, chromatin is formed from nucleosomes, which are comprised of a set of four histone proteins (H2A, H2B, H3, H4) wrapped with DNA. Chromatin is a very dynamic structure in which numerous post-translational modifications work together to activate or repress the availability of DNA to be copied, transcribed, or repaired. These marks decide which DNA will be open and commonly active (euchromatin) or tightly wound to prevent access and activation (heterochromatin). Common histone modifications include methylation of lysine and arginine, acetylation of lysine, phosphorylation of threonine and serine, and sumoylation, biotinylation, and ubiquitylation of lysine. Specifically, methylation of arginine 8 on histone H3 (H3 R8me2s) is associated with transcriptional repression, and modified by PRMT5, but not CARM1. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Synonyms:

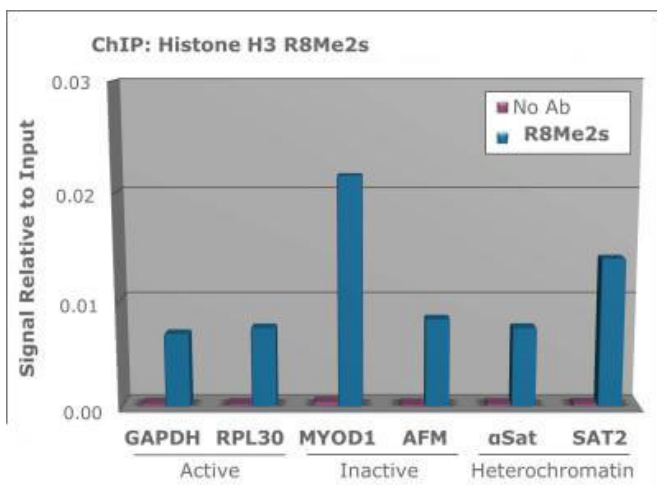
rabbit anti-Histone H3 Sym-dimethyl Arg8 antibody, H3.3B, H3 histone, family 3A, H3.3AH3F3H3F3B, histone H3.3, MGC87783, MGC87782, H3R8me2s

Note:

Anti-Histone H3 [Sym-dimethyl Arg8] antibody is tested for Western Blot, 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:

Chromatin Immunoprecipitation of Histone H3 [Sym-dimethyl Arg8] Antibody. Chromatin from one million formaldehyde cross-linked HeLa cells was used with 2 ug of Anti-Histone H3 R8 me2a was used to IP DNA from fixed HeLa cells alongside a no antibody (No Ab) control. DNA was measured by qRT-PCR and normalized to total input (input=1).