

Product datasheet for **TA397543**

H3.3A (H3F3A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, WB
Recommended Dilution:	WB: 0.5µg/mL IF: 1:50 - 1:100 ChIP: 2 µg
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 K79-Me1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide surrounding the Lys79 site of human Histone H3.
Specificity:	Anti-Histone H3 [Monomethyl Lys79] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3. 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:	0.50 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:	H3 histone, family 3A
Database Link:	Entrez Gene 3020 Human P84243



[View online »](#)

Background:

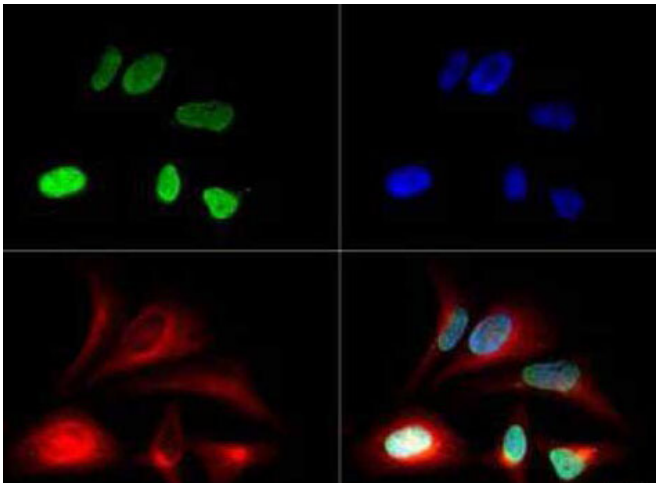
Chromatin is the arrangement of DNA and proteins in which chromosomes are formed. Correspondingly, chromatin is formed from nucleosomes, which are comprised of a set of four histone proteins (H2A, H2B, H3, H4) wrapped with DNA. Chromatin is a very dynamic structure in which numerous post-translational 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. In particular Lys79 methylations are involved in transcriptional activation, and has been found to be inversely correlated with H2B ubiquitination. Anti-Histone H3 K79-Me1 antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

Synonyms:

rabbit anti-Histone H3 monomethyl Lys79 antibody, H3K79me1, Anti-H3 K79-Me1, Histone H3 antibodies

Note:

Anti-Histone H3 K79-Me1 antibody is tested in Western Blot, ChIP, Immunofluorescence, and Dot Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15kDa corresponding to the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

Product images:

Immunofluorescence of Histone H3 [monomethyl Lys79-Me1]: Histone H3 K79me1 antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).