

## Product datasheet for **TA354734**

### H3FA (HIST1H3A) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide containing KAAR[Me1-K]SAP in which Me1-K corresponds to Monomethyl lysine 27 of human histone H3.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	17 kDa
Gene Name:	histone cluster 1, H3a
Database Link:	<a href="#">NP_003520</a> <a href="#">Entrez Gene 360198 Mouse</a> <a href="#">Entrez Gene 679994 Rat</a> <a href="#">Entrez Gene 8350 Human</a> <a href="#">P68431</a>



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**Background:**

Histones are basic nuclear proteins that together with DNA make up the nucleosome structure in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The methylation of specific residues in the histone tails is a central modification for regulating epigenetic transitions in chromatin. Whereas methylation of histone H3 on lysine 4, 36, and 79 has been linked with gene activation, methylation of H3 on lysines 9, 27 and histone H4 on lysine 20 is associated with heterochromatin and some repressed genes with euchromatin. Modified lysine residues can exist in a mono-, di-, or tri-methylated state, while the arginine residues can be mono- or di-methylated. Histone H3 Lys4 trimethylation (H3-K4me3) is a conserved mark of actively transcribed chromatin. This antibody is specific for histone H3 mono-methylated at K9. The sequence is found in all mammals and a wide range of species, including *D. melanogaster*, *Arabidopsis*, Chicken and *Xenopus*. The antibody will react with any of the above species where the monomethylation modification is present.

**Synonyms:**

A; H3; H3FA

**Protein Pathways:**

Systemic lupus erythematosus