

## Product datasheet for **TA347155**

### H3FA (HIST1H3A) Mouse Monoclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	ChIP (1-5ug/ChIP); ELISA (1:3,000); Dot blotting (1:10,000); Western blotting (1:1,000 - 1:2,000)
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for anti-H3K36me2 antibody: histone H3 dimethylated at lysine 36 (H3K36me2), using a KLH-conjugated synthetic peptide
Concentration:	lot specific
Purification:	Protein A purified monoclonal antibody in PBS containing 0.05% azide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	histone cluster 1, H3a
Database Link:	<a href="#">NP_003520</a> <a href="#">Entrez Gene 8350 Human</a> <a href="#">P68431</a>

**Background:** Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases.

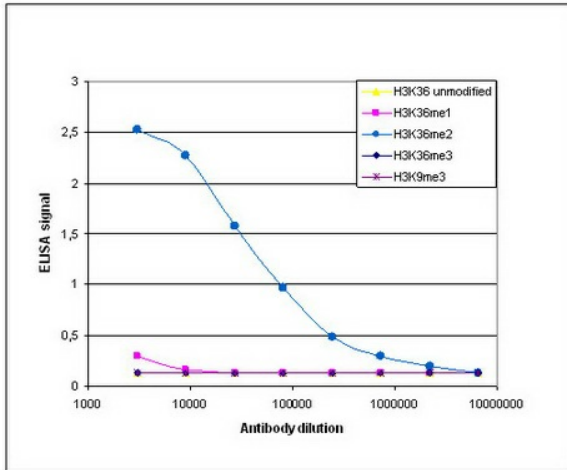


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Synonyms: A; H3; H3FA

Protein Pathways: Systemic lupus erythematosus

**Product images:**



Cross reactivity of the antibody against H3K36me2 To test the specificity an ELISA was performed using a serial dilution of the antibody against H3K36me2. The wells were coated with peptides containing the unmodified H3K36 region as well as the mono-, di- and trimethylated H3K36 and the trimethylated H3K9. Image shows a high specificity of the antibody for the peptide containing the modification of interest.