

Product datasheet for TA347177

H3FA (HIST1H3A) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	Dot, ELISA, WB
Recommended Dilution:	ELISA (1:100); Dot blotting (1:1,000); Western blotting (1:250)
Reactivity:	Human
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-H3K18ac antibody: histone H3 containing the acetylated lysine 18 (H3K18ac), using a KLH-conjugated synthetic peptide.
Concentration:	lot specific
Purification:	Whole antiserum from rabbit 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:	<u>NP_003520</u> <u>Entrez Gene 8350 Human</u> <u>P68431</u>
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. Acetylation of histone H3 is associated with active gene transcription.



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Serigene H3FA (HIST1H3A) Rabbit Polyclonal Antibody – TA347177

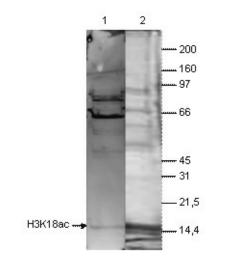
Synonyms:

A; H3; H3FA

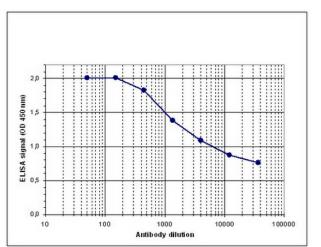
Protein Pathways:

Systemic lupus erythematosus

Product images:

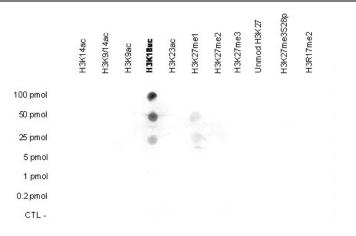


WB using the antibody against H3K18ac diluted 1:250 in TBS-Tween containing 5% skimmed milk (lane 1). Lane 2 shows a coomassie blue staining of the gel. The position of the protein of interest is indicated on the left; the marker (in kDa) is shown on the right.



Determination of the titer To determine the titer, an ELISA was performed using a serial dilution of the antibody against H3K18ac. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:8, 800.

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A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K18ac with with peptides containing other modifications and unmodified sequences of histone H3. One hundred to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:1,000. Image shows a high specificity of the antibody for the modification of interest.

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