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Product datasheet for TA354738

H3FA (HIST1H3A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IP
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
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide containing AR[Me2-K]ST in which Me2-K corresponds to Dimethyl 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:	<u>NP_003520</u> <u>Entrez Gene 360198 MouseEntrez Gene 679994 RatEntrez Gene 8350 Human</u> <u>P68431</u>



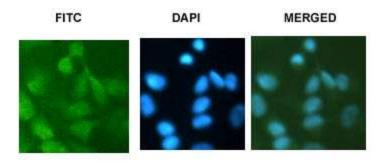
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GRIGENE H3FA (HIST1H3A) Rabbit Polyclonal Antibody – TA354738

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
regulatingepigenetic 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 tri-methylated at K27. 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 trimethylation modification is present.

Synonyms:A; H3; H3FAProtein Pathways:Systemic lupus erythematosus

Product images:



IF: 3T3 cells were cultured in chamber, and fixed onto slide followed by incubation with 5 ug/ml Rb Anti-Dimethyl Histone H3 (K27) antibody, then FITC labeled Gt anti-Rb IgG for visualization under fluorescent microscope.

IP: The nuclear extract derived from 3T3 were immunoprecipitated by 4 ug of Rabbit anti-Diimethyl Histone 3 (K27), then probed with Rb anti-Dimethyl Histone 3 (K9), at 1:1000. An immunoreactive band at ~17kDa is observed. Note: ~50 kDa and ~22 kDa are the rabbit immunoglobulin heavy and light chain

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