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Product datasheet for TA354860

H3FA (HIST1H3A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Dot
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
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide containing TAR[Acetyl-K]STGG in which Acetylation at lysine 9 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:	NP_003520 Entrez Gene 8350 Human P68431

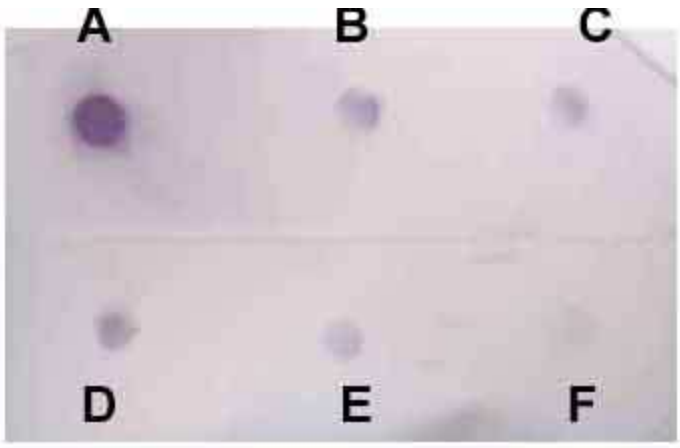
View online »

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 K4. 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; H3FA

Protein Pathways: Systemic lupus erythematosus

Product images:



DB: Peptides (~1 ug/dot) were immobilized onto NC membrane, and immunoblotted by Rabbit anti-Acetylated Histone H3 at K9 at 1:500. A: Histone H3 (Acetylated at K 9) B: Histone H3 (Non-Acetylated at K9) C: Histone H3 (Phosphorylated at K9) D: Histone H3 (Monomethylated at K9) E: Histone H3 (Dimethylated at K9) F: Histone H3 (Trimethylated at K9)