

Product datasheet for **TA396888S**

H3FA (HIST1H3A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1.0 ug/ml IHC: User Optimized ELISA: 5.0 µg/ml
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Anti-Histone-3 was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to the c-terminus region of human histone-3.
Specificity:	Anti-Histone H3 is directed against the human histone 3 protein. The product was protein A purified from monospecific antiserum by immunoaffinity chromatography using protein A coupled to agarose beads. A BLAST analysis was used to suggest reactivity with human and multiple other eukaryotic. Cross-reactivity with histone-3 from other sources have not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.98 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store H3 antibody at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	histone cluster 1, H3a
Database Link:	Entrez Gene 8350 Human P68431



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Background:

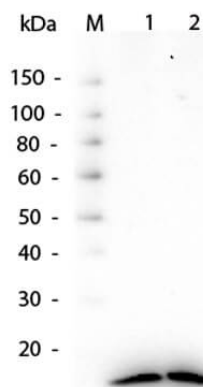
Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Histone proteins are highly post-translationally modified with Histone H3 being the most extensively modified of the five histones. The N-terminal tail of histone H3 protrudes from the globular nucleosome core and can undergo several different types of post-translational modification that influence cellular processes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Histone H3 Antibody is ideal for investigators involved in Cell Signaling, Epigenetics, Nuclear Signaling research and Signal Transduction research.

Synonyms:

rabbit anti-histone H3 antibody, Histone H3.1, H3F, H3FA, H3FB, H3FL, H3FL, H3FC, H3FD, H3FI, H3FH, H3FK, H3FF, H3FJ, Histone 3 Antibody

Note:

Histone H3 antibody has been tested for use in ELISA and western blot. This antibody is suitable for IHC. For western blots expect a band of approximately 15.4 kDa in size corresponding to the Histone 3 protein. Specific conditions for reactivity should be optimized by the end user.

Product images:

Western Blot of Rabbit Anti-Histone H3 antibody. Lane 1: HeLa WCL (p/n W09-000-364). Lane 2: HeLa Nuclear Extract (p/n W09-001-367). Load: 10 µg per lane. Primary antibody: Histone H3 antibody at 1.0 µg/ml for 1 hr at RT. Secondary antibody: HRP Gt-a-Rb IgG secondary antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: ~15 kDa, ~15 kDa for Histone H3.