

## Product datasheet for **TA327973**

### H3FT (HIST3H3) Rat Monoclonal Antibody [Clone ID: HTA28]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	HTA28
Applications:	IF, WB
Recommended Dilution:	WB, IP, ICFC, IF, CyTOF
Reactivity:	Human
Host:	Rat
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH, corresponding to amino acids 23-35 of Human Histone H3.
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
Concentration:	lot specific
Purification:	The antibody was purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	histone cluster 3, H3
Database Link:	<a href="#">NP_003484</a> <a href="#">Entrez Gene 8290 Human</a> <a href="#">Q16695</a>



[View online »](#)

**Background:**

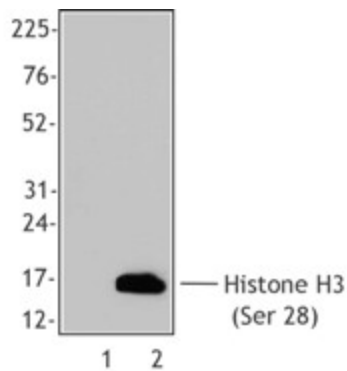
H3 is a core component of the nucleosome that serves to wrap and compact DNA into chromatin. Histones therefore, limit the accessibility of DNA, providing mechanisms for transcription regulation, DNA repair and replication and chromosomal stability. During mitosis, H3 is phosphorylated at serine 28. This phosphorylation coincides with chromosome condensation initiated at prophase and disappears at late anaphase. H3 has been demonstrated to be phosphorylated by the action of MLTK- $\alpha$  (mixed lineage kinase-like mitogen activated protein triple kinase  $\alpha$ ) in response to ultraviolet B light and epidermal growth factor, as well as Aurora-B during mitosis.

**Synonyms:**

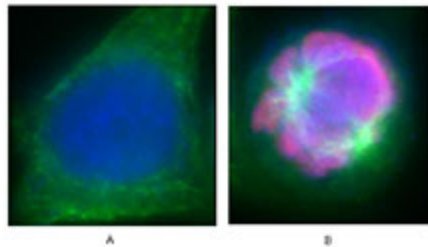
g; H3; H3.4; H3FT; H3t

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**


Western blot analysis of extracts from untreated HeLa cells (lane 1) or overnight nocodazole-treated HeLa cells (lane 2), using anti-phospho-Histone H3 (Ser28), clone HTA28.



Untreated HeLa (Panel A) and overnight nocodazole-treated HeLa (Panel B) were stained with purified rat monoclonal antibody against phospho-H3 (Ser28) (clone HTA28), followed by Alexa Fluor® 488 anti-alpha-tubulin, DyLight™ 594 goat anti-rat-IgG and DAPI.