

Phospho-Histone H3 (Mitotic Marker) Antibody Sampler Kit

Cat# AK0229

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Modulation of chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin. The amino-terminal tails of core histones undergo various post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination. These modifications occur in response to various stimuli and have a direct effect on the accessibility of chromatin to transcription factors and, therefore, gene expression. In most species, histone H2B is primarily acetylated at Lys5, 12, 15, and 20. Histone H3 is primarily acetylated at Lys9, 14, 18, 23, 27, and 56. Acetylation of H3 at Lys9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10, Ser28, and Thr11 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis. Phosphorylation at Thr3 of histone H3 is highly conserved among many species and is catalyzed by the kinase haspin. Immunostaining with phospho-specific antibodies in mammalian cells reveals mitotic phosphorylation at Thr3 of H3 in prophase and its dephosphorylation during anaphase.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340546	Histone H3 Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A340372	Phospho-Histone H3 (Thr3) Polyclonal Antibody	20µL	WB	Human, Mouse, Rat	Rabbit
A340235	Phospho-Histone H3 (Ser10) Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A340373	Phospho-Histone H3 (Thr11) Polyclonal Antibody	20µL	WB	Human, Mouse, Rat	Rabbit
A340374	Phospho-Histone H3 (Ser28) Polyclonal Antibody	20µL	WB	Human, Mouse, Rat	Rabbit
A340375	Phospho-Histone H3 (Tyr41) Polyclonal Antibody	20µL	WB	Human, Mouse, Rat	Rabbit

A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat
---------------	---	-------	-----------	--------	------

PRODUCT USE LIMITATION

These products are intended for research use only.