Technical support: order@acebiolab.com

Phone: 886-3-2870051

Ver.1 Date : 20180222

Tri-Methyl Histone H3 Antibody Sampler Kit

Cat# AK0276

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

PRODUCT DESCRIPTION

The nucleosome, made up of four core histone proteins (H2A, H2B, H3, and H4), is the primary building block of chromatin. Originally thought to function as a static scaffold for DNA packaging, histones have now been shown to be dynamic proteins, undergoing multiple types of post-translational modifications, including acetylation, phosphorylation, methylation, and ubiquitination. Histone methylation is a major determinant for the formation of active and inactive regions of the genome and is crucial for the proper programming of the genome during development. Arginine methylation of histones H3 (Arg2, 17, 26) and H4 (Arg3) promotes transcriptional activation and is mediated by a family of protein arginine methyltransferases (PRMTs), including the co-activators PRMT1 and CARM1 (PRMT4). In contrast, a more diverse set of histone lysine methyltransferases has been identified, all but one of which contain a conserved catalytic SET domain originally identified in the Drosophila Su(var)3-9, Enhancer of zeste, and Trithorax proteins. Lysine methylation occurs primarily on histones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) and has been implicated in both transcriptional activation and silencing. Methylation of these lysine residues coordinates the recruitment of chromatin modifying enzymes containing methyl-lysine binding modules such as chromodomains (HP1, PRC1), PHD fingers (BPTF, ING2), tudor domains (53BP1), and WD-40 domains (WDR5). The discovery of histone demethylases such as PADI4, LSD1, JMJD1, JMJD2, and JHDM1 has shown that methylation is a reversible epigenetic marker.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A330113	Histone H3 Monoclonal Antibody	20μL	WB, IF, IP	Human, Mouse, Rat, Yeast	Mouse
A330120	Tri-Methyl-Histone H3 (Lys9) Monoclonal Antibody	20μL	WB	Human, Mouse, Rat	Mouse
A330122	Tri-Methyl-Histone H3 (Lys4) Monoclonal Antibody	20μL	WB	Human, Mouse, Rat	Mouse
A340410	Tri-Methyl-Histone H3 (Lys27) Polyclonal Antibody	20μL	WB	Human, Mouse, Rat	Rabbit
A330118	Tri-Methyl-Histone H3 (Lys36) Monoclonal Antibody	20μL	WB	Human, Mouse, Rat	Mouse



A330119	Tri-Methyl-Histone H3 (Lys79)	20μL	WB, IP	Human, Mouse, Rat	Mouse
	Monoclonal Antibody				Mouse
A1013s	Goat Anti-Rabbit IgG (H+L)	120μL	WB, ELISA	Rabbit	Coat
	(peroxidase/HRP conjugated)				Goat
A1012s	Goat Anti-Mouse IgG (H+L)	120μL	WB, ELISA	Mouse	Cont
	(peroxidase/HRP conjugated)				Goat

PRODUCT USE LIMITATION

These products are intended for research use only.

