

Histone H3(Mono-mehtyl-Lys4) Antibody

Catalog No: #HW215

Package Size: #HW215-1 50ul #HW215-2 100ul

Description

Product Name	Histone H3(Mono-mehtyl-Lys4) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Immunogen affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu,Ms,Rt
Immunogen Description	peptide
Conjugates	Unconjugated
Other Names	HIST1 cluster, H3J antibody Histone gene cluster 1, H3 histone family, member E antibody Histone gene cluster 1, H3G antibody H3 histone family, member J antibody HIST1 cluster, H3E antibody HIST1 cluster, H3I antibody Histone gene cluster 1, H3C antibody FLJ92264 antibody H3 histone family, member A antibody H3 histone family, member B antibody H3 histone family, member C antibody H3 histone family, member D antibody H3 histone family, member F antibody H3 histone family, member H antibody H3 histone family, member I antibody H3 histone family, member K antibody H3 histone family, member L antibody H3 histone family, member T antibody H3 histone, family 3A antibody H3.1 antibody H3.3A antibody H3/a antibody H3/b antibody H3/c antibody H3/d antibody h3/f antibody H3/h antibody H3/i antibody H3/j antibody H3/k antibody H3/l antibody H3/t antibody H31_HUMAN antibody H3F1K antibody H3F3 antibody H3F3A antibody H3FA antibody H3FB antibody H3FC antibody H3FD antibody H3FF antibody H3FH antibody H3FI antibody H3FJ antibody H3FK antibody H3FL antibody HIST1 cluster, H3A antibody HIST1 cluster, H3B antibody HIST1 cluster, H3C antibody HIST1 cluster, H3D antibody HIST1 cluster, H3F antibody HIST1 cluster, H3G antibody HIST1 cluster, H3H antibody HIST1H3A antibody HIST1H3B antibody HIST1H3C antibody HIST1H3D antibody HIST1H3E antibody HIST1H3F antibody HIST1H3G antibody HIST1H3H antibody HIST1H3I antibody HIST1H3J antibody HIST3H3 antibody Histone 1, H3a antibody Histone 1, H3b antibody Histone 1, H3c antibody Histone 1, H3d antibody Histone 1, H3e antibody Histone 1, H3f antibody Histone 1, H3g antibody Histone 1, H3h antibody Histone 1, H3i antibody Histone 1, H3j antibody histone 3, H3 antibody histone cluster 1 H3 family member a antibody histone cluster 1 H3 family member b antibody histone cluster 1 H3 family member c antibody histone cluster 1 H3 family member d antibody histone cluster 1 H3 family member e antibody histone cluster 1 H3 family member f antibody histone cluster 1 H3 family member g antibody histone cluster 1 H3 family member h antibody histone cluster 1 H3 family member i antibody histone cluster 1 H3 family member j antibody Histone cluster 1, H3a antibody Histone cluster 1, H3b antibody Histone cluster 1, H3c antibody Histone cluster 1, H3d antibody Histone cluster 1, H3e antibody Histone cluster 1, H3f antibody Histone cluster 1, H3g antibody Histone cluster 1, H3i antibody Histone cluster 1, H3j antibody Histone gene cluster 1, H3 histone family, member A antibody Histone gene cluster 1, H3 histone family, member B antibody Histone gene cluster 1, H3 histone family, member C antibody Histone gene cluster 1, H3 histone family, member D antibody Histone gene cluster 1, H3 histone family, member F antibody Histone gene cluster 1, H3 histone family, member G antibody Histone gene cluster 1, H3 histone family, member H antibody Histone gene cluster 1, H3 histone family, member I antibody Histone gene cluster 1, H3 histone

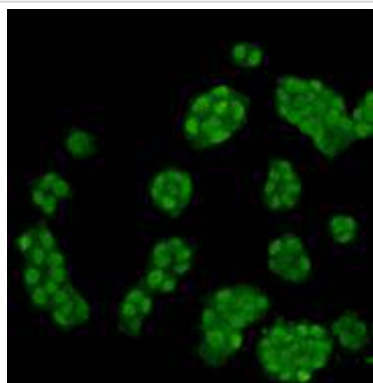
family, member J antibody Histone gene cluster 1, H3A antibody Histone gene cluster 1, H3B antibody Histone gene cluster 1, H3D antibody Histone gene cluster 1, H3E antibody Histone gene cluster 1, H3F antibody Histone gene cluster 1, H3H antibody Histone gene cluster 1, H3I antibody Histone gene cluster 1, H3J antibody Histone H 3 antibody Histone H3.1 antibody histone H3.1t antibody Histone H3.2 antibody Histone H3/a antibody Histone H3/b antibody Histone H3/c antibody Histone H3/d antibody Histone H3/f antibody Histone H3/h antibody Histone H3/i antibody Histone H3/j antibody Histone H3/k antibody Histone H3/l antibody Histone H3/m antibody Histone H3/o antibody

Accession No.	Swiss-Prot#:P68431
Calculated MW	~17 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1: 2,000ICC: 1:50

Images



ICC image of Histone H3 (mono methyl K4) stained NCCIT cells. The secondary antibody (green) was goat anti-rabbit IgG (H+L) FITC conjugated.

Background

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. 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. Methylation at Lys-5 (H3K4me), Lys-37 (H3K36me) and Lys-80 (H3K79me) are linked to gene activation. Methylation at Lys-5 (H3K4me) facilitates subsequent acetylation of H3 and H4. Methylation at Lys-80 (H3K79me) is associated with DNA double-strand break (DSB) responses and is a specific target for TP53BP1. Methylation at Lys-10 (H3K9me) and Lys-28 (H3K27me) are linked to gene repression. Methylation at Lys-10 (H3K9me) is a specific target for HP1 proteins (CBX1, CBX3 and CBX5) and prevents subsequent phosphorylation at Ser-11 (H3S10ph) and acetylation of H3 and H4. Methylation at Lys-5 (H3K4me) and Lys-80 (H3K79me) require preliminary monoubiquitination of H2B at 'Lys-120'. Methylation at Lys-10 (H3K9me) and Lys-28 (H3K27me) are enriched in inactive X chromosome chromatin.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.