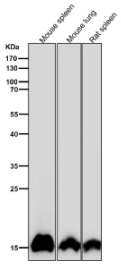
Histone H3 (mono methyl K14) Antibody / HIST1H3A [clone 31H98] (FY12032)

Catalog No.	Formulation	Size
FY12032	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

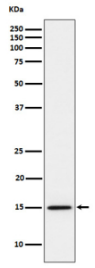
Recombinant RABBIT MONOCLONAL

Bulk quote request

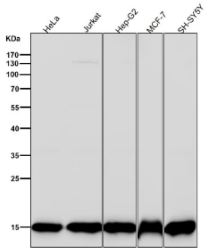
Availability	2-3 weeks
Species Reactivity	Human, Mouse
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31H98
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P68431
Applications	Western Blot : 1:500-1:2000 Immunocytochemistry/Immunofluorescence : 1:50-1:200 Flow Cytometry : 1:50
Limitations	This Histone H3 (mono methyl K14) antibody is available for research use only.



All lanes use the antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of Histone H3 (mono methyl K14) expression in HeLa cell lysate.



All lanes use the antibody at 1:1K dilution for 1 hour at room temperature.

Description

Histone H3 (mono methyl K14) antibody detects histone H3 modified by monomethylation at lysine 14, a chromatin mark associated with transcriptional regulation. Histone H3 is a core nucleosomal protein that organizes DNA into higher-order chromatin structures. Post-translational modifications, including methylation, acetylation, and phosphorylation, fine-tune chromatin accessibility and gene expression. Monomethylation at K14 is thought to influence transcription initiation and may serve as a platform for recruitment of regulatory proteins. This antibody is part of a broader collection of Histone H3 antibodies used to study chromatin structure, histone modifications, and epigenetic regulation.

Research using Histone H3 (mono methyl K14) antibody has provided insights into epigenetic mechanisms controlling development, differentiation, and disease. Aberrant histone modifications, including those at lysine 14, have been implicated in cancer and other pathologies where transcriptional misregulation drives disease progression. Monitoring K14 methylation is particularly useful for understanding how specific histone codes influence chromatin states during cellular responses.

Antibodies specific for H3 monomethyl K14 are validated for chromatin immunoprecipitation, western blot, and immunofluorescence. These reagents provide researchers with reliable tools to explore how histone methylation events alter gene regulation in both normal physiology and disease models.

NSJ Bioreagents supplies this Histone H3 (mono methyl K14) antibody for epigenetics research. Alternate names include histone cluster 1 H3 family member A antibody, histone H3.1 antibody, and nucleosomal histone H3 antibody.

Application Notes

Optimal dilution of the Histone H3 (mono methyl K14) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Histone H3 (mono methyl K14) was used as the immunogen for the Histone H3 (mono methyl K14) antibody.

Storage

Store the Histone H3 (mono methyl K14) antibody at -20oC.