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Anti-Histone H3 Antibody (Tri Methyl Lys36) [Q12]

Mouse Anti-Human Histone H3 (tri Methyl Lys36)
Monoclonal IgG1
Catalog No. SMC-251



Overview

Product Name

Histone H3 Antibody (tri Methyl Lys36)

Description

Mouse Anti-Human Histone H3 (tri Methyl Lys36) Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB

Antibody Dilution

WB (1:5000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Prepared by immunizing synthetic peptide coupled to KLH.

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS (without Mg²⁺ and Ca²⁺), 50% glycerol, pH 7.4, 150mM NaCl, 0.02% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Clonality

Monoclonal

Clone Number

Q12

Isotype

IgG1

Specificity

Detects endogenous Histone H3(tri methyl K36) protein.

Cite This Product

Mouse Anti-Human Histone H3 Monoclonal, Clone Q12 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-251)

Certificate Of Analysis

A 1:5000 dilution of SMC-251 was sufficient for detection of Histone H3 in 10 µg of Human HeLa cell lysates by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

H3 histone family, member A Antibody, H3/A Antibody, H31_HUMAN Antibody, H3FA Antibody, Hist1h3a Antibody, histone 1 H3a Antibody, Histone cluster 1 H3a Antibody, Histone H3.1 Antibody

Cellular Localization

Chromosome, Nucleus

Swiss Prot

P68431/Q71DI3/P84243

Scientific Background

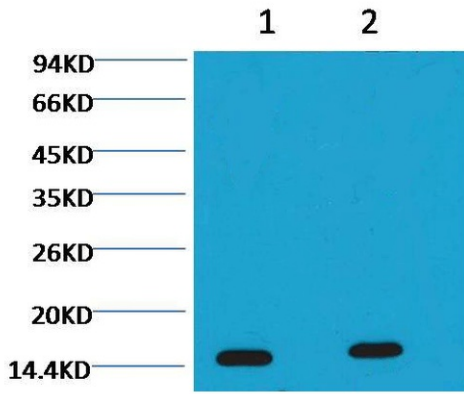
Histone H3 is a 17 kD nuclear protein that is a component of an octamer containing pairs of each of four core histones (H2A, H2B, H3, H4). The core histones create nucleosome structure of chromosomal fiber in eukaryotes and are dynamic in gene regulation. The histones exhibit cell cycle-dependent transcriptional regulation except for the variant H3.3 which is cell cycle-independent. Histone H3 can be modified by phosphorylation, acetylation, ubiquitination, ribosylation, and methylation. Histone H3 has been shown to interact with Rsk-2, MSK1, GCN5 family of HATs, HDACs, PARP, SET7/9, and CARM1. Histones play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability.

References

1. Wu R., et al. (1981) Cell. 27:321.
2. Strahl B., et al. (2000) Nature. 403:41.
3. Bauer U., et al. (2002) EMBO Rep. 3:39.
4. Frank D., et al. (2003) Gene. 312:135.

Product Images

Western Blot analysis of Human HeLa cell lysates showing detection of ~15 kDa Histone H3 protein using Mouse Anti-Histone H3 Monoclonal Antibody, Clone Q12 (SMC-251). Lane 1: 1:1,000 Dilution. Lane 2: 1:5,000 Dilution. Primary Antibody: Mouse Anti-Histone H3 Monoclonal Antibody (SMC-251). Predicted/Observed Size: ~15 kDa.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.