

Recombinant Histone H3 (Mono Methyl Arg2) Monoclonal Antibody

catalog number: AN302117L

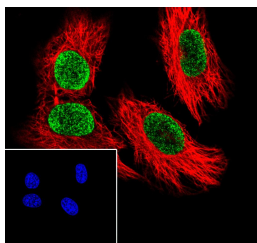
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

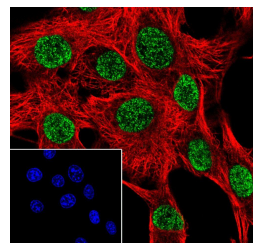
Reactivity	Human;Rat;Mouse;Monkey;Pig;Arabidopsis thaliana;Phaeodactylum tricornutum
Immunogen	Monomethylated human histone H3 (Arg2) peptide
Host	Rabbit
Isotype	IgG, κ
Clone	A841
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB	1:1000-1:2000
IF	1:100-1:400



Immunofluorescent analysis of (100% Ice-cold methanol) fixed HeLa cells using anti-Histone H3 (Mono Methyl Arg2) Monoclonal Antibody at dilution of 1:400.



Immunofluorescent analysis of (100% Ice-cold methanol) fixed C2C12 cells using anti-Histone H3 (Mono Methyl Arg2) Monoclonal Antibody at dilution of 1:400.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Histone post-translational modifications (PTMs) are key mechanisms of epigenetics that modulate chromatin structures, termed as "histone code". The PTMs on histone including acetylation, methylation, phosphorylation and novel acylations directly affect the accessibility of chromatin to transcription factors and other epigenetic regulators, altering genome stability, gene transcription, etc. Histone methylation occurs primarily at lysine and arginine residues on the amino terminal of core histones. Methylation of histones can either increase or decrease transcription of genes, depending on which amino acids (Lys or Arg) in the histones are methylated and how many methyl groups are attached (mono-, di-, Trimethylation on Lys, mono-di-symmetric/asymmetric methylation on Arg). Mostly, lysine methylation occurs primarily on histone H3 Lys4, 9, 27, 36, 79 and H4 Lys20, while Arginine methylation occurs primarily on histone H3 Arg2, 8, 17, 26 and H4 Arg3. histone methyltransferases (HMTs) and histone demethylases (HDMs) are major regulating factors.

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