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A Reliable Research Partner in Life Science and Medicine

Recombinant Histone H3 (Asymmetric Di Methyl Arg17) Monoclonal Antibody

catalog number: AN302106L

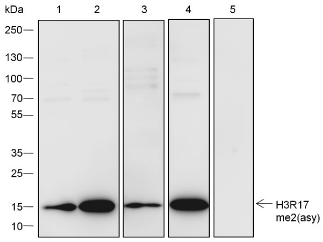
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human Asymmetric Di-Methyl-Histone H3 (Arg17) fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A830
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000-1:2000
ChIP	6 μg/5×10^6 cells

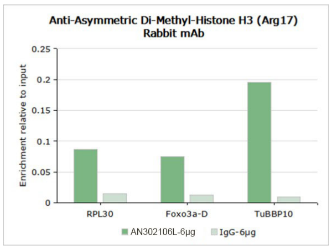
Data



Western Blot with Histone H3 (Asymmetric Di Methyl Arg17) Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: MCF-7, Lane 3: C2C12 nuclear, Lane 4: BRL, Lane 5: Recombinant histone H3

Observed-MW:15 kDa

Calculated-MW:15 kDa



Chromatin immunoprecipitation analysis of HeLa immunoprecipitated DNA by real-time PCR using primers specific for the human RPL30, FOXO3a-D and TuBBP10. The data are presented as enrichment of each sample relative to the total amount of input chromatin at each amplicon.

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.