

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody

Histone H3 R8me2s Antibody Catalog # ASR5628

Specification

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Product Information

Host Rabbit

Conjugate Unconjugated Target Species Human

Reactivity
Clonality
Application
Human
Polyclonal
WB, I, LCI

Application Note Anti-Histone H3 [Sym-dimethyl Arg8]

antibody is tested for Western Blot,
Chromatin Immunoprecipitation and Dot
Blot. Specific conditions for reactivity
should be optimized by the end user.
Expect a band approximately ~15.4 kDa
corresponding to Histone H3 protein by
Western Blotting in HeLa histone prep
lysate or the appropriate cell lysate or
extract. Epi-Plus™ antibody production in

collaboration with Novus Biologicals.

Physical State Liquid (sterile filtered)

0.02 M Potassium Phosphate, 0.15 M

Sodium Chloride, pH 7.2

Immunogen Histone H3 [Sym-dimethyl Arg8] affinity

purified antibody was prepared from whole

rabbit serum produced by repeated

immunizations with a synthetic symmetric

dimethylated peptide surrounding Arginine

8 of human Histone H3.2.

Preservative 0.01% (w/v) Sodium Azide

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Additional Information

Gene ID 126961;333932;653604

Other Names 126961

Purity

Buffer

Anti-Histone H3 [Sym-dimethyl Arg8] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3.2. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology. Cross-reactivity with Histone H3 from other sources has not been determined.

Storage Condition

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended



storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Protein Information

Name H3C15 (HGNC:20505)

Function

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. 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.

Cellular Location

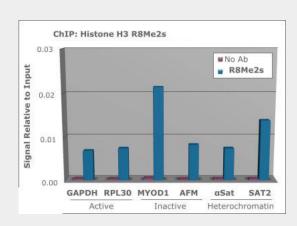
Nucleus. Chromosome.

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Images



Chromatin Immunoprecipitation of Histone H3 [Sym-dimethyl Arg8] Antibody. Chromatin from one million formaldehyde cross-linked Hela cells was used with 2 ug of Anti-Histone H3 R8 me2a was used to IP DNA from fixed Hela cells alongside a no antibody (No Ab) control. DNA was





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measured by gRT-PCR and normalized to total input (input=1).

Anti-Histone H3 [Sym-dimethyl Arg8] (RABBIT) Antibody - Background

Chromatin is the arrangement of DNA and proteins in which chromosomes are formed. Correspondingly, chromatin is formed from nucleosomes, which are comprised of a set of four histone proteins (H2A, H2B, H3, H4) wrapped with DNA. Chromatin is a very dynamic structure in which numerous post-translational modifications work together to activate or repress the availability of DNA to be copied, transcribed, or repaired. These marks decide which DNA will be open and commonly active (euchromatin) or tightly wound to prevent access and activation (heterochromatin). Common histone modifications include methylation of lysine and arginine, acetylation of lysine, phosphorylation of threonine and serine, and sumoylation, biotinylation, and ubiquitylation of lysine. Specifically, methylation of arginine 8 on histone H3 (H3 R8me2s) is associated with transcriptional repression, and modified by PRMT5, but not CARM1. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.