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Anti-Histone H3 [ac Lys9/phospho Ser10] (RABBIT) Antibody
Histone H3 K9-Ac/phospho S10 (RABBIT) Antibody
Catalog # ASR5768

Specification

Anti-Histone H3 [ac Lys9/phospho Ser10] (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human, Mouse**
Clonality	**Polyclonal**
Application	**WB, I, LCI**
Application Note	**Anti-Histone H3 K9-Ac/pS10 antibody is tested for Western Blot, Dot Blot, and Immunocytochemistry/Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15 kDa corresponding to Histone H3 protein by Western Blotting in NIH-3T3 histone prep lysate or the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-Histone H3 [ac Lys9/phospho Ser10] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide with a acetylation surrounding Lysine 9 and a phosphorylation surrounding serine 10 of human Histone H3.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Histone H3 [ac Lys9/phospho Ser10] (RABBIT) Antibody - Additional Information

Gene ID 126961;333932;653604

Other Names
126961

Purity
Anti-Histone H3 K9Ac/pS10 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3. Cross-reactivity with 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 [ac Lys9/phospho Ser10] (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.

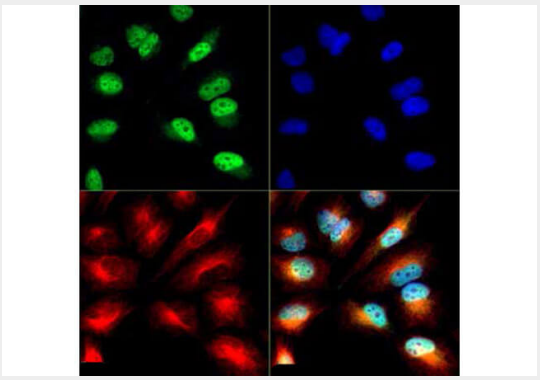
Cellular Location
Nucleus. Chromosome.

Anti-Histone H3 [ac Lys9/phospho Ser10] (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 [ac Lys9/phospho Ser10] (RABBIT) Antibody - Images



Immunofluorescence of Histone H3 [ac Lys9/phosphor Ser10]: Histone H3 K9-Ac/pS10 antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

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Anti-Histone H3 [ac Lys9/phospho Ser10] (RABBIT) Antibody - Background

Histones of the nucleosome build chromatin and undergo various post-translational modifications proven to regulate chromatin condensation and DNA accessibility. Phosphorylations on Serine 10 has been shown to facilitate chromatin condensation by its interaction with Aurora-B kinase during mitosis and is alternatively active in cell division. Serine modification is associated with IKK-alpha and Snf1 enzymes in transcriptional activation, and is modified by MSK1 and 2 which are enzymes that react to growth factors and cellular stress in immediate-early gene activation. Lysine 9 acetylations are connected with histone deposition and transcriptional activation. Anti-Histone H3 [ac Lys9/phospho Ser10] antibody is ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.