10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Histone H3.3 Antibody
Rabbit mAb
Catalog # AP90553

Specification

Histone H3.3 Antibody - Product Information

Application	**IHC**
Primary Accession	P84243
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
H3.3; H3.3A; H33_HUMAN ; H3F3; Histone H3.3 ; H3 histone family 3A; H3 histone family 3B

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**15328 Da**

Histone H3.3 Antibody - Additional Information

Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Histone H3.3**
Description	**Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

Histone H3.3 Antibody - Protein Information

Name H3-3A (HGNC:4764)

Synonyms H3.3A, H3F3, H3F3A

Function

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Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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.

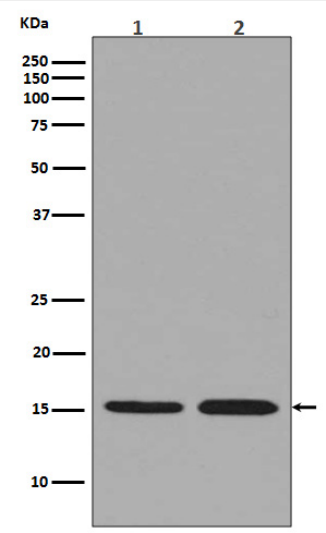
Cellular Location
Nucleus. Chromosome

Histone H3.3 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

Histone H3.3 Antibody - Images



Western blot analysis of Histone H3.3 expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate.

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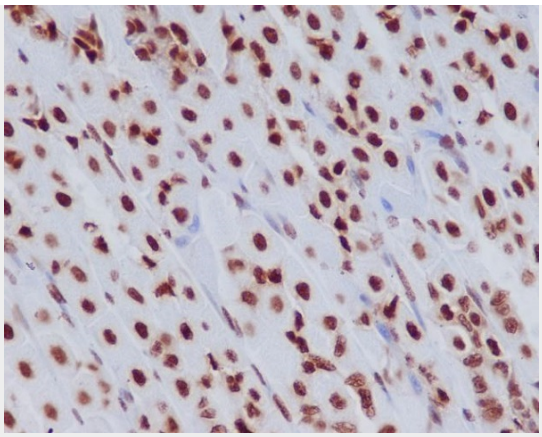

Immunohistochemical analysis of paraffin-embedded mouse stomach, using Histone H3.3 Antibody .