

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

Variante histone H3, die konventionelles H3 in einem weiten Bereich von Nucleosomen in aktiven Genen ersetzt. Bildet die vorherrschende Form von Histone H3 in nicht-dividierenden Zellen und wird unabhängig von der DNA-Synthese in Chromatin eingebaut. Es lagert sich an Stellen der Nucleosomenverschiebung während der Transkription ab, was darauf hindeutet, dass es ein epigenetisches Prägungsmark der transkriptionell aktiven Chromatin darstellt. Nucleosomen wickeln und kompaktieren die DNA in Chromatin, was den DNA-Zugänglichkeit für die zellulären Maschinerien, die DNA als Vorlage benötigen, begrenzt. Histone spielen eine zentrale Rolle bei der Transkriptionsregulation, der DNA-Reparatur, der DNA-Replikation und der Chromosomenstabilität. Die DNA-Zugänglichkeit wird über eine komplexe Reihe von post-translationalen Modifikationen der Histone, auch als Histone-Code bezeichnet, und Nucleosomen-Remodelling reguliert.

Cellular Location

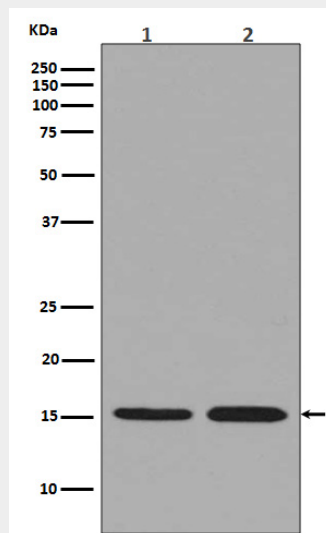
Nucleus. Chromosome

Histone H3.3 Antibody - Protocols

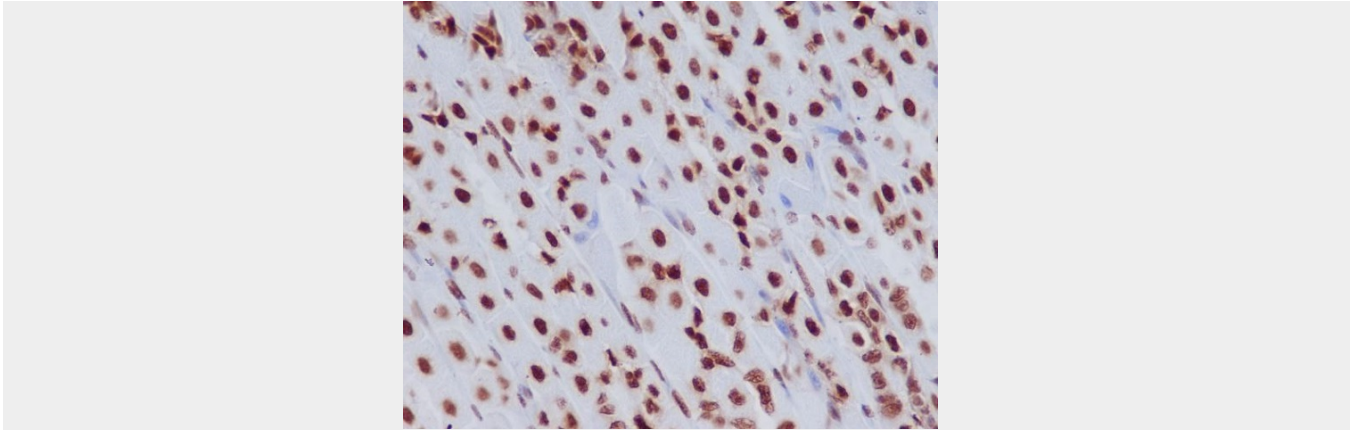
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.



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