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# H3f3b Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21780b

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | P84244 |
| **Reactivity** | Mouse |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB53621 |
| **Calculated MW** | 15328 |

## Additional Information

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|---|---|
| **Gene ID** | 15078;15081 |
| **Other Names** | Histone H33, H3f3a, H33a |
| **Target/Specificity** | This H3f3b antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 103-136 amino acids from mouse H3f3b. |
| **Dilution** | WB~~1:8000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | H3f3b Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | H3-3a {ECO:0000250\|UniProtKB:P84243} |
| **Function** | 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.

## Background

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.

## References

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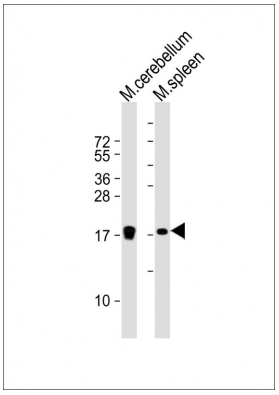
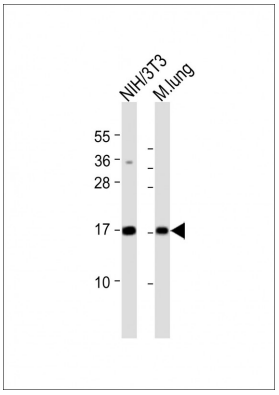
Bramlage B.,et al.Differentiation 62:13-20(1997).
Lopez-Alanon D.M.,et al.DNA Cell Biol. 16:639-644(1997).
Carninci P.,et al.Science 309:1559-1563(2005).
Mancini P.,et al.J. Mol. Evol. 59:458-463(2004).

## Images




All lanes : Anti-H3f3b Antibody (C-Term) at 1:2000 dilution Lane 1: mouse cerebellum lysate Lane 2: mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




All lanes : Anti-H3f3b Antibody (C-Term) at 1:8000 dilution Lane 1: NIH/3T3 whole cell lysate Lane 2: mouse lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.