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H2AFY2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10726a

Specification

H2AFY2 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9P0M6
Other Accession	Q8CCK0, NP_061119.1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**40058**
Antigen Region	**11-39**

H2AFY2 Antibody (N-term) - Additional Information

Gene ID 55506

Other Names
Core histone macro-H2A2, Histone macroH2A2, mH2A2, H2AFY2, MACROH2A2

Target/Specificity
This H2AFY2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-39 amino acids from the N-terminal region of human H2AFY2.

Dilution
WB~~1:1000
FC~~1:10~50

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
H2AFY2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

H2AFY2 Antibody (N-term) - Protein Information

Name MACROH2A2 (HGNC:14453)

Function Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where

it represses transcription. 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. May be involved in stable X chromosome inactivation.

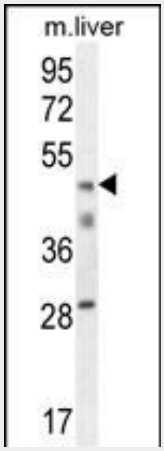
Cellular Location
Nucleus. Chromosome. Note=Enriched in inactive X chromosome chromatin (PubMed:11331621, PubMed:11262398) and in senescence- associated heterochromatin (PubMed:15621527)

H2AFY2 Antibody (N-term) - 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

H2AFY2 Antibody (N-term) - Images



H2AFY2 Antibody (N-term) (Cat. #AP10726a) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the H2AFY2 antibody detected the H2AFY2 protein (arrow).

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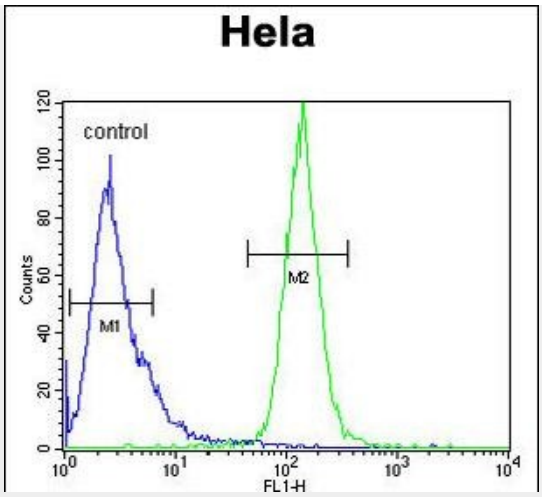

H2AFY2 Antibody (N-term) (Cat. #AP10726a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

H2AFY2 Antibody (N-term) - Background

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. 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. May be involved in stable X chromosome inactivation.

H2AFY2 Antibody (N-term) - References

Xu, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(5):2136-2140(2010)
Sporn, J.C., et al. Oncogene 28(38):3423-3428(2009)
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
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