

**H2AFY2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10726a**

**Specification**

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**H2AFY2 Antibody (N-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O9P0M6</a>
Other Accession	<a href="#">O8CCK0</a> , <a href="#">NP_061119.1</a>
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

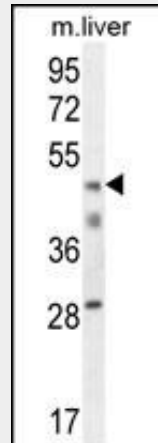
Nucleus. Chromosome. Note=Enriched in inactive X chromosome chromatin (PubMed:11331621, PubMed:11262398) and in senescence- associated heterochromatin (PubMed:15621527)

#### H2AFY2 Antibody (N-term) - Protocols

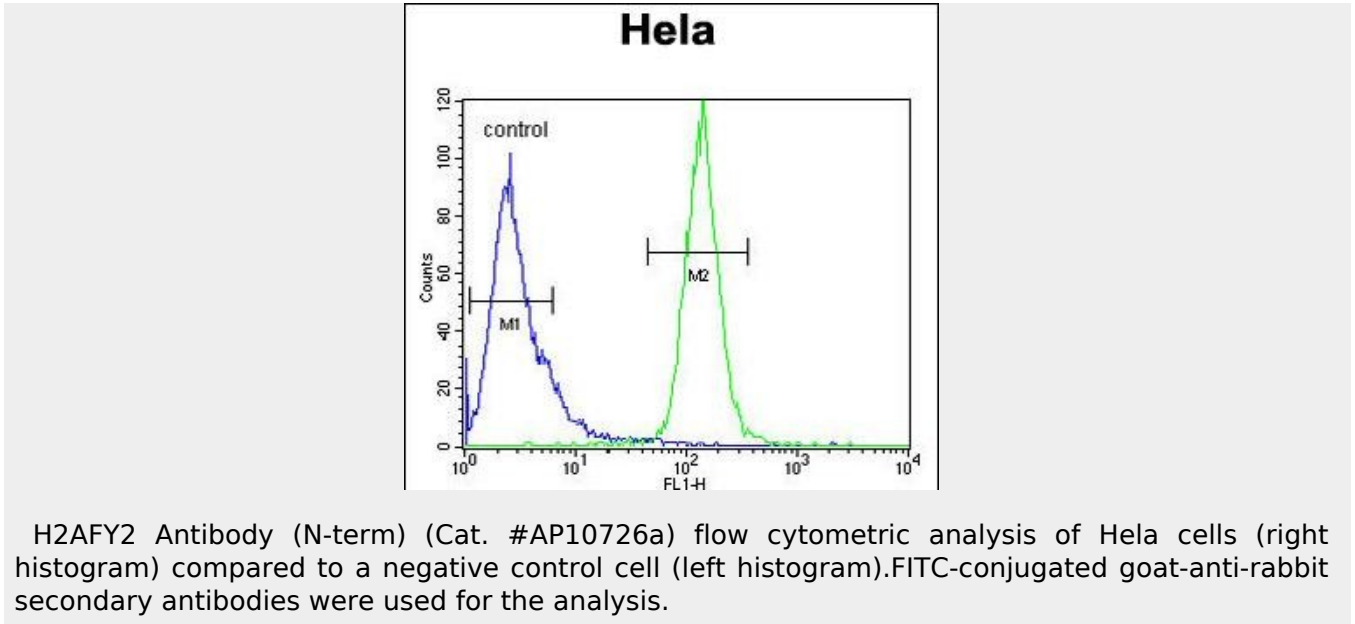
Provided below are standard protocols that you may find useful for product applications.

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



### 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)
- Zhang, R., et al. Dev. Cell 8(1):19-30(2005)
- Deloukas, P., et al. Nature 429(6990):375-381(2004)