

**H1FOO Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17183c**

**Specification**

**H1FOO Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IZA3</a>
Other Accession	<a href="#">NP_722575.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35813
Antigen Region	138-167

**H1FOO Antibody (Center) - Additional Information**

**Gene ID** 132243

**Other Names**

Histone H100, Oocyte-specific histone H1, Oocyte-specific linker histone H1, osH1, H1FOO, H100, OSH1

**Target/Specificity**

This H1FOO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-167 amino acids from the Central region of human H1FOO.

**Dilution**

WB~~1:1000

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**

H1FOO Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**H1FOO Antibody (Center) - Protein Information**

Name H1-8 ([HGNC:18463](#))

**Function** May play a key role in the control of gene expression during oogenesis and early embryogenesis, presumably through the perturbation of chromatin structure. Essential for meiotic maturation of germinal vesicle-stage oocytes. The somatic type linker histone H1c is rapidly replaced by H1oo in a donor nucleus transplanted into an oocyte. The greater mobility of H1oo as compared to H1c may contribute to this rapid replacement and increased instability of the embryonic chromatin structure. The rapid replacement of H1c with H1oo may play an important role in nuclear remodeling (By similarity).

**Cellular Location**

Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00837}. Chromosome {ECO:0000255|PROSITE-ProRule:PRU00837}

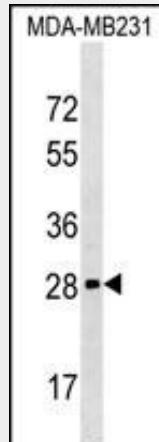
**Tissue Location**

Oocyte-specific..

**H1FOO Antibody (Center) - 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](#)

**H1FOO Antibody (Center) - Images**

H1FOO Antibody (Center) (Cat. #AP17183c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the H1FOO antibody detected the H1FOO protein (arrow).

**H1FOO Antibody (Center) - Background**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is

further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. The protein encoded is a member of the histone H1 family. This gene contains introns, unlike most histone genes. The protein encoded is a member of the histone H1 family. The related mouse gene is expressed only in oocytes.

#### **H1FOO Antibody (Center) - References**

Mizusawa, Y., et al. Fertil. Steril. 93(4):1134-1141(2010)  
Tanaka, M., et al. Biol. Reprod. 72(1):135-142(2005)  
Teranishi, T., et al. Dev. Biol. 266(1):76-86(2004)  
Gao, S., et al. Dev. Biol. 266(1):62-75(2004)  
Tanaka, Y., et al. Biochem. Biophys. Res. Commun. 304(2):351-357(2003)