

**H1FOO Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17183c****Specification**

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**H1FOO Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8IZA3](#)**H1FOO Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 132243**Other Names**

Histone H1oo, Oocyte-specific histone H1, Oocyte-specific linker histone H1, osH1, H1FOO, H1OO, OSH1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**H1FOO Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **H1FOO Antibody (Center) Blocking Peptide - Images**

## **H1FOO Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)