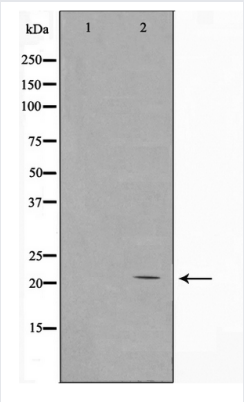
Histone H1 (H1FOO) Antibody

PRODUCT OVERVIEW

Product Name	Histone H1 (H1FOO), Antibody
Full Product Name	Histone H1 Antibody
Product Gene Name	anti-H1FOO antibody
Product Synonym Names	H1 histone family; member O; oocyte-specific; H1FOO; H1OO; Histone H1oo; MGC50807; Oocyte-specific histone H1; Oocyte-specific linker histone H1; OSH1
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Histone H1 Antibody detects endogenous levels of Histone H1
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	21kDa
3D Structure	ModBase 3D Structure for Q8IZA3
Immunogen	A synthesized peptide derived from human Histone H1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-H1FOO antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-H1FOO antibody	WB: 1:500-1:2000 IF/ICC: 1:100-1:500
Related Product Information for anti-H1FOO antibody	H1FOO 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.
Other Notes	Small volumes of anti-H1FOO antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for H1FOO purchase	MBS8511158 is an antibody targeting H1FOO. Also known as Histone H1 Antibody. Reactive in Human.



Western Blot (WB) of anti-H1FOO antibody
Western blot analysis on COS7 cell lysate using Histone H1 Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H1FOO. It may not necessarily be applicable to this product.

NCBI GI #	815891235
NCBI GeneID	132243
NCBI Accession #	NP_001295191.1
UniProt Primary Accession #	Q8IZA3
UniProt Secondary Accession #	Q86WT7
UniProt Related Accession #	Q8IZA3
GenBank Nucleotide #	NM_001308262.1
NCBI Official Full Name	histone H1oo isoform 2
NCBI Official Synonym Full Names	H1 histone family member O oocyte specific
NCBI Official Symbol	H1FOO
NCBI Official Synonym Symbols	H1.8; H1oo; osH1
UniProt Protein Name	Histone H1oo
UniProt Synonym Protein Names	Oocyte-specific histone H1; Oocyte-specific linker histone H1; osH1
Protein Family	Histone
UniProt Gene Name	H1FOO
UniProt Synonym Gene Names	H1OO; OSH1; osH1
NCBI Protein Information	histone H1oo
NCBI Summary for H1FOO	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 replication-independent histone that is a member of the histone H1 family. This gene contains introns, unlike most histone genes. The related mouse gene is expressed only in oocytes. [provided by RefSeq, Oct 2015]

UniProt Comments for H1FOO	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 ().
Research Articles on H1FOO	**1.** After intracytoplasmic sperm injection, the assembly of H1FOO on sperm chromatin during decondensation seems to occur very quickly, and hH1FOO protein is localized in all oocytes from primordial to Graafian follicles.
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