

Datasheet for ABIN2785287

**anti-H1FOO antibody (N-Term)**[Go to Product page](#)**1** Image**2** Publications

## Overview

Quantity:	100 µL
Target:	H1FOO
Binding Specificity:	N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This H1FOO antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human H1FOO
Sequence:	MAPGSVTSDI SPSSTSTAGS SRSPESKPG PSHGGVPPGG PSHSSLPVGR
Predicted Reactivity:	Human: 100%, Rat: 83%
Characteristics:	This is a rabbit polyclonal antibody against H1FOO. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	H1FOO
Alternative Name:	H1FOO ( <a href="#">H1FOO Products</a> )

## Target Details

Background:	<p>H1FOO may play a key role in the control of gene expression during oogenesis and early embryogenesis, presumably through the perturbation of chromatin structure. H1FOO is 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. 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.</p> <p>Alias Symbols: MGC50807, osH1</p> <p>Protein Size: 346</p>
Molecular Weight:	36 kDa
Gene ID:	132243
NCBI Accession:	<a href="#">NM_153833</a> , <a href="#">NP_722575</a>
UniProt:	<a href="#">Q8IZA3</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 346 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

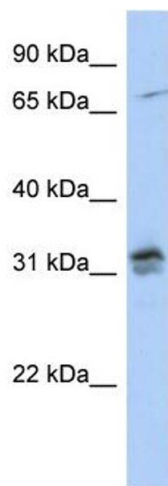
## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	<p>Hongo, Noguchi, Okuyama, Tanaka, Nishino: "Repetitive interactions observed in the crystal structure of a collagen-model peptide, [(Pro-Pro-Gly)<sub>9</sub>]<sub>3</sub>." in: <b>Journal of biochemistry</b>, Vol. 138, Issue 2, pp. 135-44, (2005) (<a href="#">PubMed</a>).</p> <p>Tanaka, Kihara, Hennebold, Eppig, Viveiros, Emery, Carrell, Kirkman, Meczekalski, Zhou, Bondy, Becker, Schultz, Misteli, De La Fuente, King, Adashi: "H1FOO is coupled to the initiation of oocytic growth." in: <b>Biology of reproduction</b>, Vol. 72, Issue 1, pp. 135-42, (2004) (<a href="#">PubMed</a>).</p>
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## Images



### Western Blotting

#### Image 1. WB Suggested Anti-H1FOO Antibody Titration:

0.2-1 ug/ml

**ELISA Titer:** 1:312500

**Positive Control:** Hela cell lysate