Datasheet for ABIN6150536

anti-Zona Pellucida Glycoprotein 3 antibody (AA 250-350)

3 Images

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Overview

Quantity:	100 µL
Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Binding Specificity:	AA 250-350
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Zona Pellucida Glycoprotein 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 250-350 of human ZP3 (NP_001103824.1).
Sequence:	AFKVPRPGPD TLQFTVDVFH FANDSRNMIY ITCHLKVTLA EQDPDELNKA CSFSKPSNSW FPVEGSADIC QCCNKGDCGT PSHSRRQPHV MSQWSRSASR N
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	Zona Pellucida Glycoprotein 3 (ZP3)

Target Details

Alternative Name:	ZP3 (ZP3 Products)
Background:	The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development. The protein encoded by this gene is a structural component of the zona pellucida and functions in primary binding and induction of the sperm acrosome reaction. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a C-terminal consensus furin cleavage site, and a transmembrane domain. It is hypothesized that furin cleavage results in release of the mature protein from the plasma membrane for subsequent incorporation into the zona pellucida matrix. However, the requirement for furin cleavage in this process remains controversial based on mouse studies. A variation in the last exon of this gene has previously served as the basis for an additional ZP3 locus, however, sequence and literature review reveals that there is only one full-length ZP3 locus in the human genome. Another locus encoding a bipartite transcript designated POMZP3 contains a duplication of the last four exons of ZP3, including the above described variation, and maps closely to this gene.,ZP3,ZP3A,ZP3B,ZPC,Zp-3,ZP3
Molecular Weight:	41 kDa/47 kDa
Gene ID:	7784
UniProt:	P21754
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

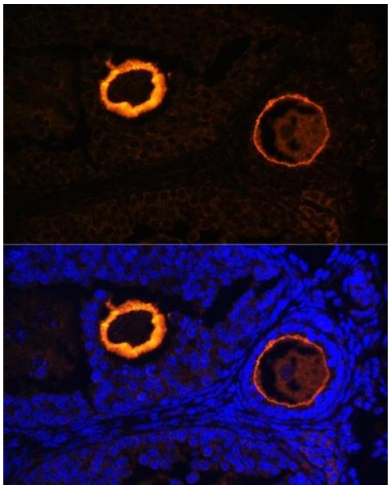
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

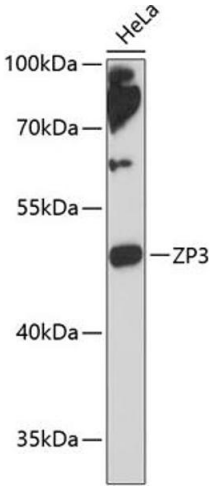
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



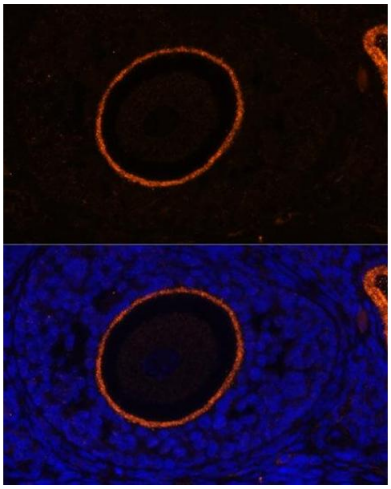
Immunofluorescence

Image 1. Immunofluorescence analysis of mouse oophoroma cells using ZP3 antibody (ABIN6134464, ABIN6150536, ABIN6150538 and ABIN6217045) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of HeLa cells, using ZP3 antibody (ABIN6134464, ABIN6150536, ABIN6150538 and ABIN6217045) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 90s.



Immunofluorescence

Image 3. Immunofluorescence analysis of rat oophoroma cells using ZP3 antibody (ABIN6134464, ABIN6150536, ABIN6150538 and ABIN6217045) at dilution of 1:100. Blue: DAPI for nuclear staining.