

Anti-ZP1 Picoband Antibody

Catalog # ABO12655

Product Information

Application	WB
Primary Accession	P60852
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Zona pellucida sperm-binding protein 1(ZP1) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	22917
Other Names	Zona pellucida sperm-binding protein 1, Zona pellucida glycoprotein 1, Zp-1, Processed zona pellucida sperm-binding protein 1, ZP1
Calculated MW	70049
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Processed zona pellucida sperm-binding protein 1: Secreted, extracellular space, extracellular matrix . The glycoproteinaceous translucent extracellular matrix that surrounds the mammalian oocyte is called zona pellucida. .
Tissue Specificity	Oocytes.
Source	Eukaryota
Protein Name	Zona pellucida sperm-binding protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ZP1 (102-139aa HVLEKDGRFHLRVFMEAVLPNGRVDVAQDATLICPKPD), different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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Protein Information

Name	ZP1
Function	Component of the zona pellucida, an extracellular matrix surrounding oocytes which mediates sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy. The zona pellucida is composed of 3 to 4 glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP1 ensures the structural integrity of the zona pellucida.
Cellular Location	[Processed zona pellucida sperm-binding protein 1]: Zona pellucida
Tissue Location	Expressed in oocytes (at protein level).

Background

Zona pellucida sperm-binding protein 1 (ZP1) is a protein that belongs to the mammalian zona pellucida. 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. Zp1 ensures the structural integrity of the zona pellucida. Mutations in this gene are a cause of oocyte maturation defect and infertility. And this gene is mapped to chromosome 11q12.2.

Images



Western blot analysis of ZP1 expression in rat ovary extract (lane 1) and SKOV3 whole cell lysates (lane 2). ZP1 at 70KD; 100KD was detected using rabbit anti-ZP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12655) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

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