

**Anti-ZP1 Picoband Antibody**  
**Catalog # ABO12655****Specification**

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**Anti-ZP1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P60852</a>
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.

**Anti-ZP1 Picoband Antibody - 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 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**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.

**Protein Name**

Zona pellucida sperm-binding protein 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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.**

**Anti-ZP1 Picoband Antibody - 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

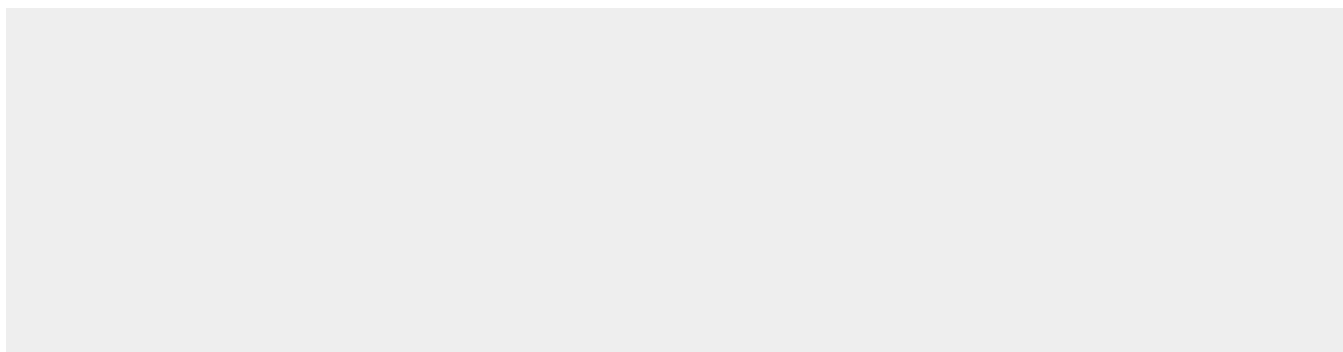
**Tissue Location**

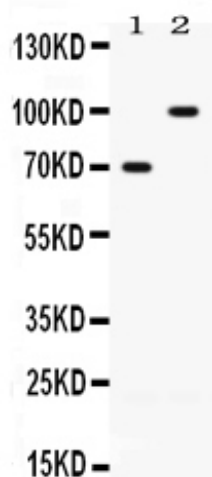
Expressed in oocytes (at protein level).

**Anti-ZP1 Picoband Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-ZP1 Picoband Antibody - 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 .

#### **Anti-ZP1 Picoband Antibody - 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.