

# Anti-ZP1 Antibody

Catalog # AP60788

## Product Information

---

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC                |
| Primary Accession | <a href="#">P60852</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 70049                  |

## Additional Information

---

|                    |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 22917                                                                                                                              |
| Other Names        | Zona pellucida sperm-binding protein 1; Zona pellucida glycoprotein 1; Zp-1                                                        |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZP1. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)                                         |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                          |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                          |

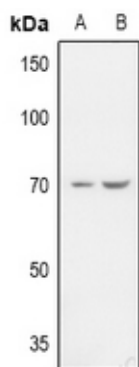
## Protein Information

---

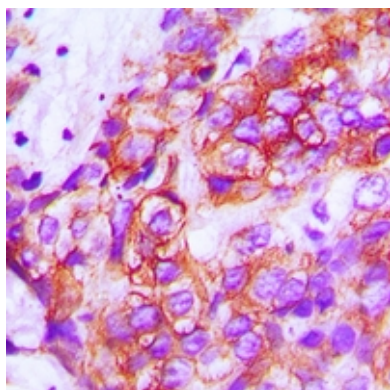
|                   |                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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).                                                                                                                                                                                                                                                                                              |

## Images

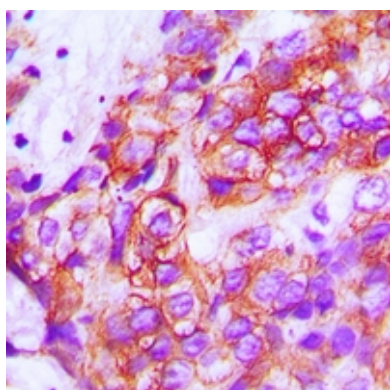
---



Western blot analysis of ZP1 expression in mouse kidney (A), rat spleen (B) whole cell lysates. (Predicted band size: 70 kD; Observed band size: 70 kD)



Immunohistochemical analysis of ZP1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemical analysis of ZP1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.