

Rabbit Anti-ZP1/AP Conjugated antibody

SL12789R-AP

Product Name	Anti-ZP1/AP
Chinese Name	碱性磷酸酶（AP）标记的卵透明带 glycoprotein1 抗体
Alias	MGC87693; Processed zona pellucida sperm-binding protein 1; zona pellucida glycoprotein 1 (sperm receptor); Zona pellucida glycoprotein 1; zona pellucida protein 1; Zp 1; Zp-1; Zp1; ZP1_HUMAN.
Research Area	Cell biology Developmental biology Stem cells
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Rabbit)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	68kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ZP1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	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 ensures the structural integrity of the zona pellucida. Mutations in this gene are a cause of oocyte maturation defect and infertility. [provided by RefSeq, May 2014]

Function:

The mammalian zona pellucida, which mediates species-specific sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy, is composed of three to four glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP1 ensures the structural integrity of the zona pellucida.

Subunit:

Polymers of ZP2 and ZP3 organized into long filaments cross-linked by ZP1 homodimers.

Subcellular Location:

Secreted > extracellular space > extracellular matrix and Cell membrane.

Tissue Specificity:

Oocytes.

Post-translational modifications:

Proteolytically cleaved before the transmembrane segment to yield the secreted ectodomain incorporated in the zona pellucida.

O-glycosylated.

Similarity:

Belongs to the ZP domain family.

ZPB subfamily.

Contains 1 P-type (trefoil) domain.

Contains 1 ZP domain.

Database links:

[Entrez Gene: 22917](#) Human

[Omim: 195000](#) Human

[SwissProt: P60852](#) Human

[Unigene: 172130](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.