

Rabbit anti-Human, Rat ZP3 Polyclonal Antibody | anti-ZP3 antibody

ZP3 Polyclonal Conjugated Antibody

CATALOG # AAA312747	HOST Rabbit	REACTIVITY Human, Rat
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PRODUCT SYNONYMS

ZP3; Polyclonal Antibody; ZP3 Polyclonal Conjugated Antibody; ZP3 Conjugated Antibody; ZP3A; ZP3B; ZPC; Zp-3; zona pellucida glycoprotein 3; anti-ZP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Immunogen	Recombinant fusion protein of human ZP3 (NP_001103824.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Preparation and Storage	Store at 4 degree C for 6 months.

ADDITIONAL INFORMATION

Related Product Information for anti-ZP3 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160358850
NCBI GeneID	7784
NCBI Accession #	NP_001103824.1
NCBI GenBank Nucleotide #	NM_001110354.1
UniProt Accession #	P21754 ; Q06633 ; Q29RW0
Molecular Weight	Calculated MW: 47kDa

NCBI Official Full Name	zona pellucida sperm-binding protein 3 isoform 1
NCBI Official Synonym Full Names	zona pellucida glycoprotein 3 (sperm receptor)
NCBI Official Symbol	ZP3
NCBI Official Synonym Symbols	ZPC; ZP3A; ZP3B; Zp-3
NCBI Protein Information	zona pellucida sperm-binding protein 3; ZP3A/ZP3B; sperm receptor; zona pellucida protein C; zona pellucida glycoprotein 3B; zona pellucida glycoprotein ZP3; zona pellucida glycoprotein 3A (sperm receptor)
UniProt Protein Name	Zona pellucida sperm-binding protein 3
UniProt Gene Name	ZP3
UniProt Synonym Gene Names	ZP3A; ZP3B; ZPC; Zp-3
UniProt Entry Name	ZP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/zp3-antibody-elisa/312747>