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ZP3 Rabbit pAb

Catalog # AP97825

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P21754
Other Accession	P21754
Predicted	Rat, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47018
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZP3
Epitope Specificity	101-200/424
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the ZP domain family. ZPC subfamily. Contains 1 ZP domain.
Post-translational modifications	Proteolytically cleaved before the transmembrane segment to yield the secreted ectodomain incorporated in the zona pellucida. N-glycosylated. O-glycosylated; removal of O-linked glycans may play an important role in the post-fertilization block to polyspermy.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. ZP3 is essential for sperm binding and zona matrix formation.

Additional Information

Gene ID	7784
Other Names	Zp-3; Zp-3B; OOMD3; OZEMA3; ZP3A; ZP3B; ZPC; ZP3_BOVIN; ZP3; Sperm receptor; Zona pellucida glycoprotein 3 (Zp-3); Zona pellucida glycoprotein 3B (Zp-3B); Zona pellucida protein C; ZP3_HUMAN; ZP3A/ZP3B; zona pellucida glycoprotein 3; zona pellucida glycoprotein 3A (sperm receptor)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ZP3
Synonyms	ZP3A, ZP3B, ZPC
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. ZP3 is essential for sperm binding and zona matrix formation.
Cellular Location	[Processed zona pellucida sperm-binding protein 3]: Zona pellucida
Tissue Location	Expressed in oocytes (at protein level).

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