

For Research Use Only

ZP3 Polyclonal antibody

Catalog Number: 21279-1-AP **13 Publications**



Basic Information

Catalog Number: 21279-1-AP	GenBank Accession Number: BC113949	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 7784	Recommended Dilutions: IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: zona pellucida glycoprotein 3 (sperm receptor)	IHC 1:500-1:2000 IF 1:50-1:500
Isotype: IgG	Calculated MW: 373 aa, 41 kDa	
Immunogen Catalog Number: AG15791	Observed MW: 47 kDa, 60 kDa	

Applications

Tested Applications: IF, IHC, IP, ELISA	Positive Controls:
Cited Applications: CoIP, IF, IHC, IP, WB	IP : HeLa cells,
Species Specificity: human, mouse	IHC : mouse ovary tissue,
Cited Species: human, mouse, hamster	IF : mouse ovary tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Zona pellucida (ZP) is an extracellular matrix that surrounds the oocyte and early embryo, which mediates species-specific sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy. Mammalian ZP consists of three to four glycoproteins, called ZP1, ZP2, ZP3, ZP4. ZP3 (zona pellucida glycoprotein 3, also known as zona pellucida sperm-binding protein 3) is essential for sperm binding and zona matrix formation. Human ZP3 gene encodes predicted precursor protein of 47 kDa that is processed into mature glycoprotein with larger apparent molecular mass (PMID: 8588935; 10341000).

Notable Publications

Author	Pubmed ID	Journal	Application
J Grosbois	31588500	Mol Hum Reprod	IF
Chunfang Liu	30302273	Cell Discov	IF
Ping Yang	33272616	Fertil Steril	IF

Storage

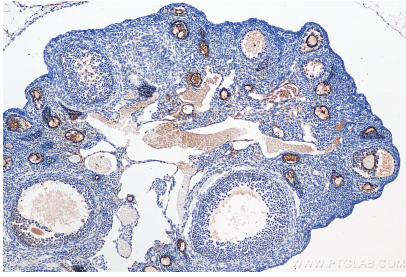
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

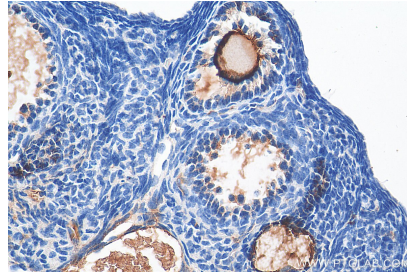
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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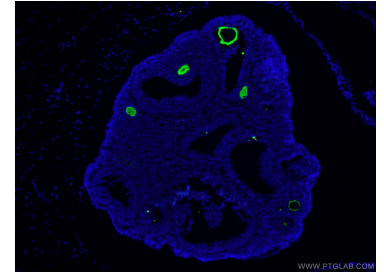
Selected Validation Data



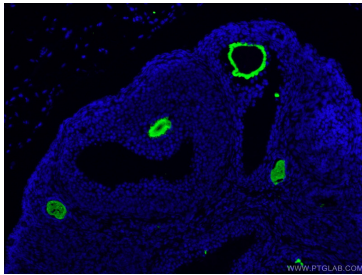
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 21279-1-AP (ZP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



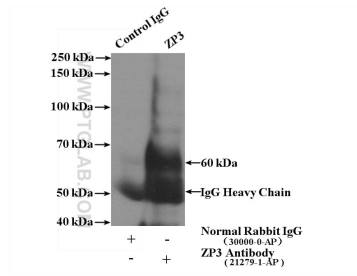
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 21279-1-AP (ZP3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse ovary tissue using 21279-1-AP (ZP3 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse ovary tissue using 21279-1-AP (ZP3 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-ZP3 (IP:21279-1-AP, 4ug; Detection:21279-1-AP 1:500) with HeLa cells lysate 1600ug.