

For Research Use Only

ZP3 Polyclonal antibody

Catalog Number: 21279-1-AP

17 Publications



Basic Information

Catalog Number:

21279-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15791

GenBank Accession Number:

BC113949

GeneID (NCBI):

7784

UNIPROT ID:

P21754

Full Name:

zona pellucida glycoprotein 3 (sperm receptor)

Calculated MW:

373 aa, 41 kDa

Observed MW:

47 kDa, 60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF-P 1:50-1:500

Applications

Tested Applications:

IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, pig, hamster

Positive Controls:

IP: HeLa cells,

IHC: mouse ovary tissue,

IF-P: 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

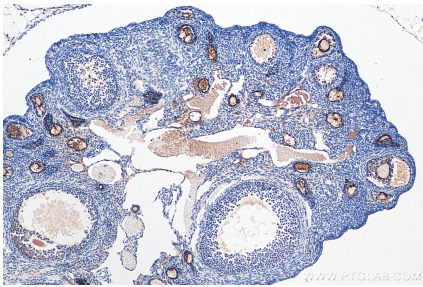
For technical support and original validation data for this product please contact:

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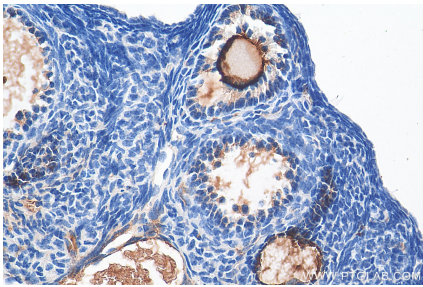
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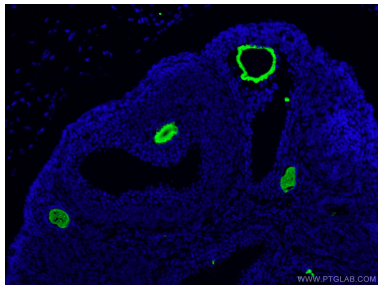
Selected Validation Data



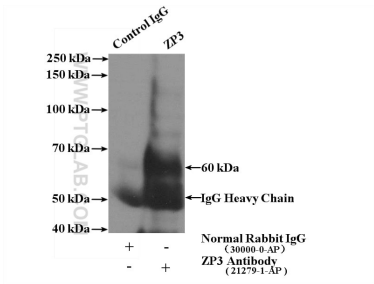
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 21279-1-AP (ZP3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



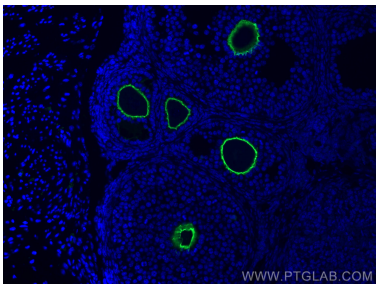
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 21279-1-AP (ZP3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



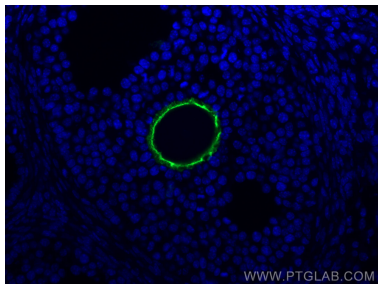
Immunofluorescent analysis of (4% PFA) fixed mouse ovary tissue using 21279-1-AP (ZP3 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using ZP3 antibody (21279-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using ZP3 antibody (21279-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).