

For Research Use Only

ZP2 Polyclonal antibody

Catalog Number: 21832-1-AP



Basic Information

Catalog Number:

21832-1-AP

Size:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16386

GenBank Accession Number:

BC096304

GeneID (NCBI):

7783

UNIPROT ID:

Q05996

Full Name:

zona pellucida glycoprotein 2 (sperm receptor)

Calculated MW:

745 aa, 82 kDa

Observed MW:

75-82 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IF-P, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: SKOV-3 cells, mouse brain tissue, mouse ovary tissue, rat brain tissue

IF-P: mouse ovary tissue,

Background Information

ZP2 is a major component of the zona pellucida to which sperm bind prior to penetrating the zona matrix and fusing with the egg. Following fertilization and cortical granule exocytosis, ZP2 is cleaved by ovastacin after which sperm do not bind to the zona pellucida. The zona pellucida and ovastacin proteins transverse the endomembrane system during oogenesis during which passage ZP2 remains intact. Secreted ZP2 is incorporated into the extracellular zona pellucida surrounding ovulated eggs and is cleaved in the zona matrix surrounding 2-cell embryos. (PMID: 28114310)

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

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

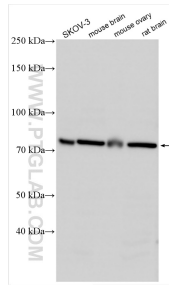
T: 4006900926

E: Proteintech-CN@ptglab.com

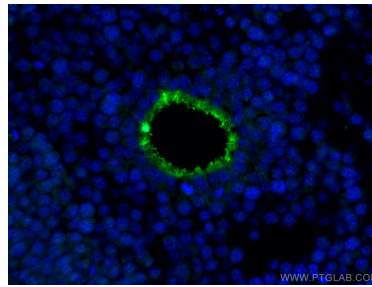
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21832-1-AP (ZP2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using ZP2 antibody (21832-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).