

For Research Use Only

ZP3 Recombinant antibody

Catalog Number: 85084-1-RR



Basic Information

Catalog Number:

85084-1-RR

Concentration:

1000 µg/ml

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

Purification Method:

Protein A purification

CloneNo.:

242729A8

Recommended Dilutions:

WB 1:1000-1:4000

IF-P 1:250-1:1000

Applications

Tested Applications:

WB, IF-P, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : LNCaP cells, A549 cells, HepG2 cells, PC-3 cells

IF-P : mouse ovary tissue,

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).

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:

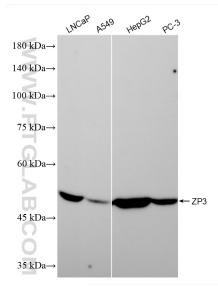
T: 4006900926

E: Proteintech-CN@ptglab.com

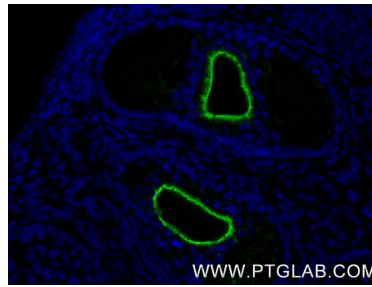
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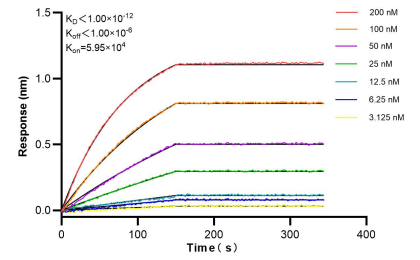
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85084-1-RR (ZP3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using ZP3 antibody (85084-1-RR, Clone: 242729A8) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biacore BLI kinetic assays of 85084-1-RR against Human ZP3 were performed. The affinity constant is below 1 pM.