

For Research Use Only

ZP3 Recombinant antibody

Catalog Number: 85084-1-RR



Basic Information

Catalog Number: 85084-1-RR	GenBank Accession Number: BC113949	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7784	CloneNo.: 242729A8
Source: Rabbit	UNIPROT ID: P21754	Recommended Dilutions: WB 1:1000-1:4000 IF-P 1:250-1:1000
Isotype: IgG	Full Name: zona pellucida glycoprotein 3 (sperm receptor)	
Immunogen Catalog Number: AG15791	Calculated MW: 373 aa, 41 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications: WB, IF-P, ELISA	Positive Controls: WB : LNCaP cells, A549 cells, HepG2 cells, PC-3 cells
Species Specificity: human, mouse	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

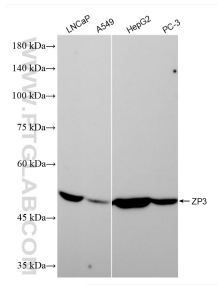
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

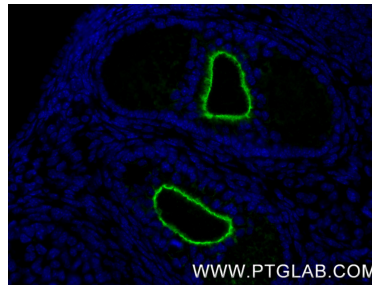
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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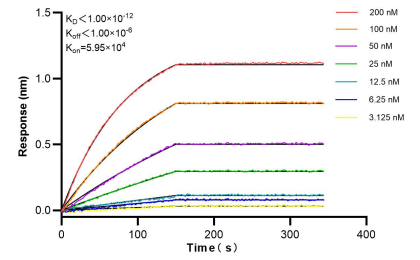
Selected Validation Data



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