

For Research Use Only

ZP3 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85084-1-PBS



Basic Information

Catalog Number: 85084-1-PBS	GenBank Accession Number: BC113949	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7784	CloneNo.: 242729A8
Source: Rabbit	UNIPROT ID: P21754	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

85084-1-PBS targets ZP3 as part of a matched antibody pair:

MP01801-2: 85084-1-PBS capture and 85084-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

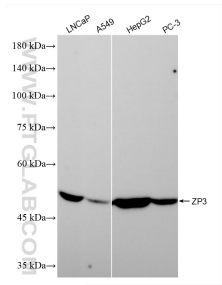
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

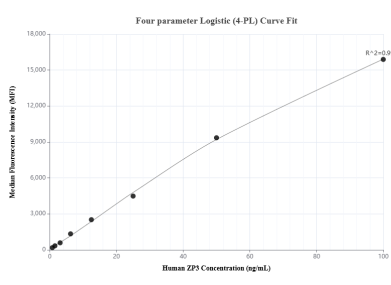
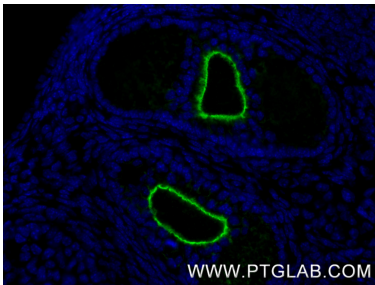
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

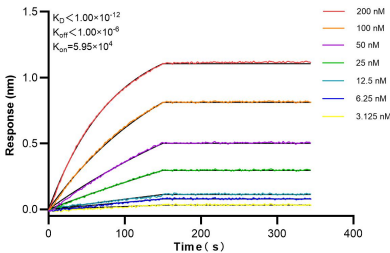
Selected Validation Data



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. This data was developed using the same antibody clone with 85084-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01801-2, ZP3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85084-1-PBS. Detection antibody: 85084-2-PBS. Standard: Ag15791. Range: 0.781-100 ng/mL



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