

For Research Use Only

ZnT4 Recombinant antibody, PBS Only (Detector)

Catalog Number: 86336-1-PBS



Basic Information

Catalog Number: 86336-1-PBS	GenBank Accession Number: BC026089	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7782	CloneNo.: 250909D12
Source: Rabbit	UNIPROT ID: O14863	
Isotype: IgG	Full Name: solute carrier family 30 (zinc transporter), member 4	
Immunogen Catalog Number: AG3313	Calculated MW: 429 aa, 47 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA, Sample test

Species Specificity:
human, mouse

Product Information

86336-1-PBS targets ZnT4 as part of a matched antibody pair:

MP02364-1: 86336-2-PBS capture and 86336-1-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

ZnT4, also known as SLC30A4, belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family and SLC30A subfamily. ZnT4 transports Zn into the trans-Golgi apparatus for lactose synthesis, and across the apical cell membrane for efflux from MECs into milk. ZnT4 is expressed in numerous tissues and is enriched in the prostate. ZnT4 encodes a protein with a molecular weight of 47 kDa (PMID: 26538236).

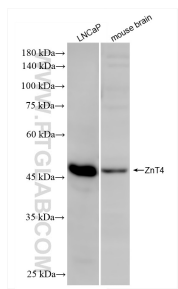
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

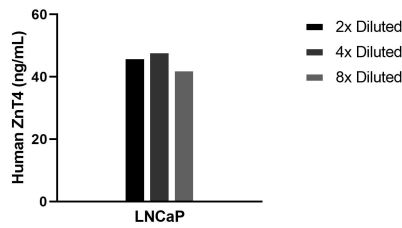
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

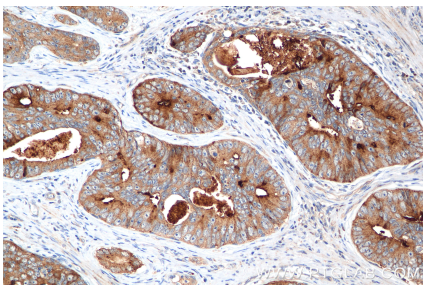
Selected Validation Data



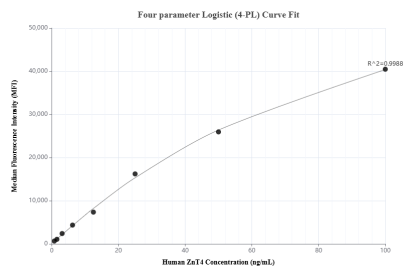
Various lysates were subjected to SDS PAGE followed by western blot with 86336-1-RR (ZnT4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86336-1-PBS in a different storage buffer formulation.



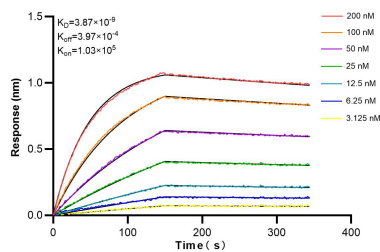
The mean ZnT4 concentration was determined to be 45.6 ng/mL in LNCaP cell extract based on a 1.2 mg/mL extract load.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 86336-1-RR (ZnT4 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86336-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP02364-1, ZnT4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86336-2-PBS. Detection antibody: 86336-1-PBS. Standard: Ag3313. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86336-1-RR against Human ZnT4 were performed. The affinity constant is 3.87 nM.