## For Research Use Only

## nectin 4 Recombinant antibody, PBS Only (Capture)

Catalog Number:83223-1-PBS

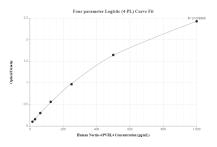


Basic Information	Catalog Number: 83223-1-PBS	GenBank Accession Number: BC010423	Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	100ug , Concentration: 1 mg/ml by	81607	240009E4
	Nanodrop;	UNIPROT ID:	Affinity:
	Source:	Q96NY8	$K_{\rm D} = 8.49 \times 10^{-10} {\rm M}$
	Rabbit	Full Name:	$K_{Off} = 2.20 \times 10^{-4} M$
	Isotype:	poliovirus receptor-related 4	$K_{On}$ = 2.59 x 10 <sup>5</sup> M
	IgG	Calculated MW: 510 aa, 55 kDa	
Applications	Tested Applications:	ICA Indiract ELICA	
	Cytometric bead array, Sandwich EL Sample test	ISA, Mullect ELISA,	
	Species Specificity: human		
Product Information	97777 1 DDS takents partin / as part	of a matched antibody pair	
	83223-1-PBS targets nectin 4 as part of a matched antibody pair:		
	MP00147-1: 83223-1-PBS capture and 83223-4-PBS detection (validated in Cytometric bead array)		
	MP00147-2: 83223-1-PBS capture and 83223-3-PBS detection (validated in Cytometric bead array)		
	MP00147-4: 83223-1-PBS capture and 83223-7-PBS detection (validated in Sandwich ELISA)		
	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			that belongs to the nectin subfamily of
	immunoglobulin-like adhesion molecules that participate in Ca(2+)-independent cell-cell adhesion (PMID: 18703497). The extracellular domain of Nectin-4, which contains three immunoglobulin-like domains (V and two C2-type domains, VCC), can be proteolytically cleaved to release a soluble form. Nectin-4 interacts with afadin via its carboxyl-terminal cytoplasmic sequence and trans-interacts with nectin-1/PR1 through V domain interaction (PMID: 11544254). It acts as a receptor for measles virus (PMID: 22048310). Nectin-4 is overexpressed in multiple human malignancies and the aberrant expression is correlated with cancer progression and poor prognostic (PMID: 35131876). Nectin-4 can be detected as a soluble form of 43 kDa and a transmembrane form of 66 kDa (PMID: 15784625).		
Storage	Storage: Store at -80°C.		
	Storage Buffer: PBS Only		

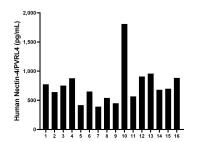
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

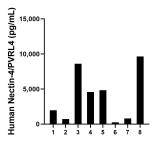
## Selected Validation Data



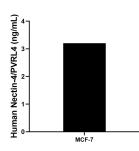
Sandwich ELISA standard curve of MP00147-4, Human Nectin-4/PVRL4 Recombinant Matched Antibody Pair - PBS only. 83223-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0415. 83223-7-PBS was HRP conjugated as the detection antibody. Range: 15.6-1000 pg/ml.



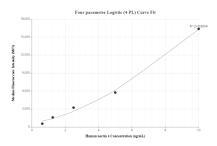
Serum of sixteen individual healthy human donors was measured. The Nectin-4/PVRL4 concentration of detected samples was determined to be 750.17 pg/mL with a range of 392.48 - 1,810.23 pg/mL



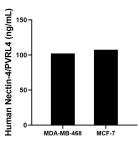
Urine of eight individual healthy human donors was measured. The Nectin-4/PVRL4 concentration of detected samples was determined to be 3,920.62 pg/mL with a range of 249.12 - 9,633.39 pg/mL



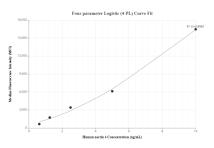
MCF-7 human breast cancer cells (5 x 10^6 cells/mL) were cultured in DMEM and 10% fetal bovine serum, 4 mM L-glutamine, 4500 mg/L glucose, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. 1 x 10^6 cells/mL were lysated by RIPA buffer, and the supernate was assayed and measured 3.2 ng/mL



Cytometric bead array standard curve of MP00147-2, Nectin-4/PVRL4 Recombinant Matched Antibody Pair - PBS only. Capture antibody: 83223-1-PBS. Detection antibody: 83223-3-PBS. Standard: Eg0415. Range: 0.625-10 ng/mL



The mean Nectin-4/PVRL4 concentration was determined to be 102.1 ng/mL in MDA-MB-468 cell extract based on a 3.1 mg/mL extract load and 107.4 ng/mL in MCF-7 cell extract based on a 4.2 mg/mL extract load.



Cytometric bead array standard curve of MP00147-1, Nectin-4/PVRL4 Recombinant Matched Antibody Pair - PBS only. Capture antibody: 83223-1-PBS. Detection antibody: 83223-4-PBS. Standard: Eg0415. Range: 0.625-10 ng/mL