For Research Use Only

## TIGIT Recombinant antibody, PBS Only (Capture)

Catalog Number:83545-1-PBS

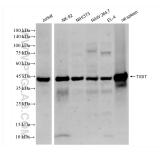


Basic Information	Catalog Number: 83545-1-PBS	GenBank Accession Number: NM_173799.4	Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	100ug , Concentration: 1 mg/ml by Nanodrop; Source:	201633	240423D3
		UNIPROT ID:	
		Q495A1-1	
	Rabbit	Full Name:	
	Isotype: IgG	T cell immunoreceptor with Ig and ITIM domains Calculated MW: 26 kDa	
		Applications	Tested Applications: WB, IHC, IF/ICC, IF-P, Cytometric be ELISA, Indirect ELISA, Sample test
Species Specificity: human, mouse, rat			
Product Information	83545-1-PBS targets TIGIT as part of a matched antibody pair:		
	MP00528-2: 83545-1-PBS capture and 83545-4-PBS detection (validated in Cytometric bead array, 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.		
		ss cytometry, and multiplex imaging a	olications including: ELISAs, multiplex pplications.Antibody use should be
Background Information	TIGIT (T-cell immunoreceptor with Ig and ITIM domains), also known as VSIG9 or VSTM3, is an immune receptor expressed on T cells, including Treg and memory subsets, as well as on NK cells (PMID: 19011627). It contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT binds to poliovirus receptor (PVR, also called CD155) with high affinity, and also to PVRL2 (CD112) with lower affinity. The interaction of TIGIT with PVR on dendritic cells increases the secretion of IL-10 and decreases the secretion of proinflammatory cytokine and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT can inhibit NK cytotoxicity directly through its ITIM (PMID: 19815499).		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

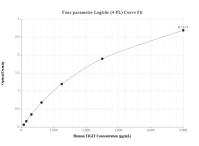
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

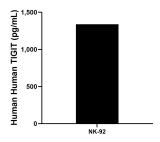
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83545-1-RR (TIGIT antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83545-1-PBS in a different storage buffer formulation.



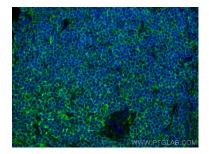
Sandwich ELISA standard curve of MP00528-2, Human TIGIT Recombinant Matched Antibody Pair -PBS only. 83545-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0749. 83545-4-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



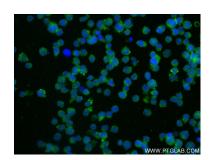
The mean TIGIT concentration was determined to be 1,338.3 pg/mL in NK-92 cell extract based on a 2.0 mg/mL extract load.



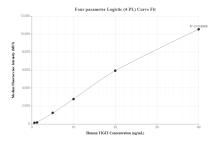
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 83545-1-RR (TIGIT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83545-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using TIGIT antibody (83545-1-RR, Clone: 240423D3) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit lgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83545-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using TIGIT antibody (83545-1-RR, Clone: 240423D3) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83545-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00528-2, TIGIT Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83545-1-PBS. Detection antibody: 83545-4-PBS. Standard: Eg0749. Range: 0.625-40 ng/mL

0.5 K<sub>D</sub><1.00×10<sup>-1</sup> 800 nM 400 nM 200 nM 1.00×10 <\_\_\_\_\_</ 04 100 nM 50 nM Ē 0 1 25 nM Response 12.5 nM 0.2 0 0 100 200 Time(s) 300 400

Biolayer interferometry (BLI) kinetic assays of 83545-1-RR against Human TIGIT were performed. The affinity constant is below 1 pM.