

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:	1 mg/ml	GeneID (NCBI):	201633	CloneNo.:	240423D3
Source:	Rabbit	UNIPROT ID:	Q495A1-1		
Isotype:	IgG	Full Name:	T cell immunoreceptor with Ig and ITIM domains		
		Calculated MW:	26 kDa		
		Observed MW:	44 kDa		

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IF-P, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse, rat

## 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

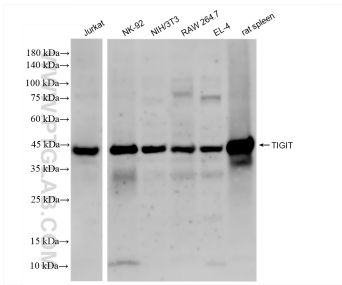
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

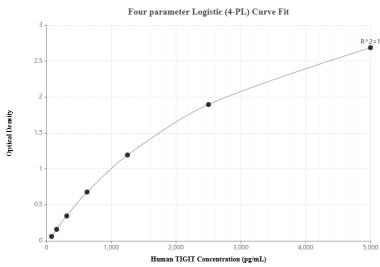
W: [ptgcn.com](http://ptgcn.com)

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

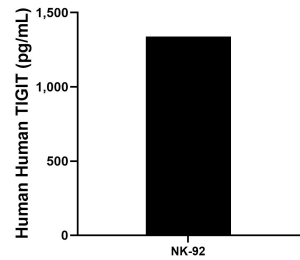
Selected Validation Data



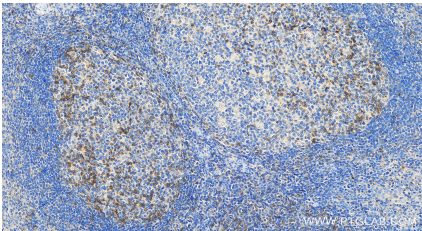
Various lysates were subjected to SDS PAGE followed by western blot with 83545-1-RR (TIGIT antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83545-1-PBS in a different storage buffer formulation.



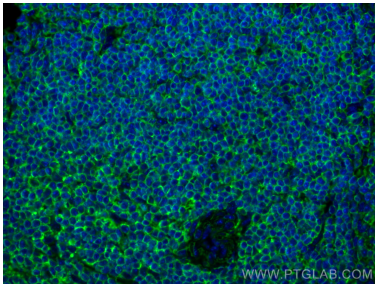
Sandwich ELISA standard curve of MP00528-2, Human TIGIT Recombinant Matched Antibody Pair - PBS only. 83545-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0749. 83545-4-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



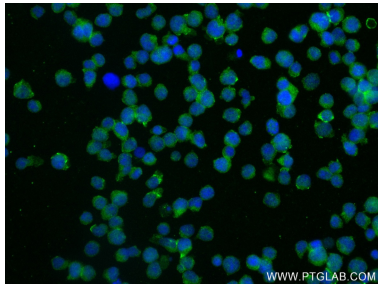
The mean TIGIT concentration was determined to be 1,338.3 pg/mL in NK-92 cell extract based on a 2.0 mg/mL extract load.



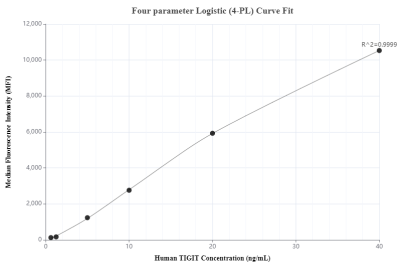
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83545-1-RR (TIGIT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83545-1-PBS in a different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



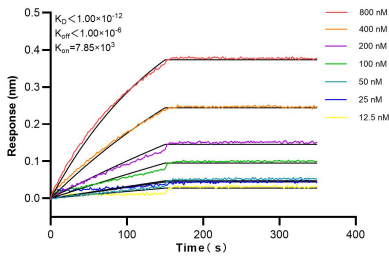
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using TIGIT antibody (83545-1-RR, Clone: 240423D3) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed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



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