

For Research Use Only

Anti-Human TIGIT Rabbit Recombinant Antibody

Catalog Number: 98023-1-RR



Basic Information

Catalog Number:	98023-1-RR	GenBank Accession Number:	NM_173799.4	Purification Method:	Protein A purification
Size:	100ug, 1 mg/ml	GenID (NCBI):	201633	CloneNo.:	240423C12
Source:	Rabbit	UNIPROT ID:	Q495A1-1	Recommended Dilutions:	FC: 0.25 ug per 10 ⁶ cells in 100 µl suspension
Isotype:	IgG	Full Name:	T cell immunoreceptor with Ig and ITIM domains		
		Calculated MW:	26 kDa		

Applications

Tested Applications:	Positive Controls:
FC	FC : human PBMCs,

Species Specificity:
human

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 PVRIL2 (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).

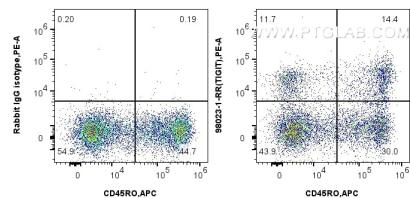
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

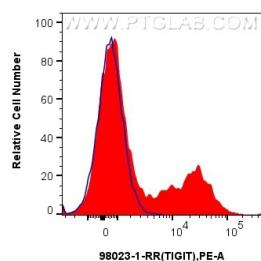
For technical support and original validation data for this product please contact:
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W: ptglab.com

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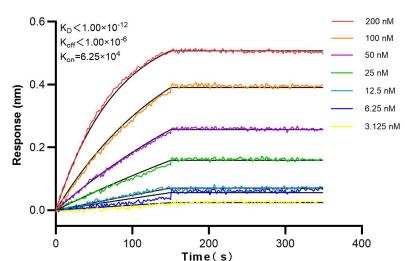
Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human TIGIT Rabbit Recombinant Antibody (98023-1-RR, Clone: 240423C12) or Isotype Control, and PE-conjugated Goat Anti-Rabbit IgG. Cells were then stained with APC Anti-Human CD45RO. Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human TIGIT Rabbit Recombinant Antibody (98023-1-RR, Clone: 240423C12) (red) or Isotype Control (blue), and PE-conjugated Goat Anti-Rabbit IgG. Cells were not fixed. Lymphocytes were gated.



Biolayer interferometry (BLI) kinetic assays of 98023-1-RR against Human TIGIT were performed. The affinity constant is below 1 pM.