

For Research Use Only

# Anti-Human TIGIT Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98023-2-PBS



## Basic Information

Catalog Number:

98023-2-PBS

Size:

1mg, 2mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_173799.4

GeneID (NCBI):

201633

UNIPROT ID:

Q495A1-1

Full Name:

T cell immunoreceptor with Ig and ITIM domains

Calculated MW:

26 kDa

Purification Method:

Protein A purification

CloneNo.:

240423C7

## Applications

Tested Applications:

FC

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 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

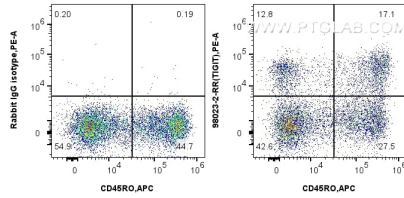
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

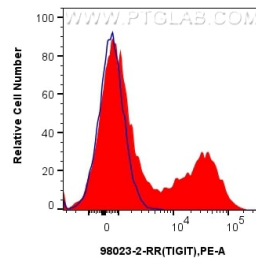
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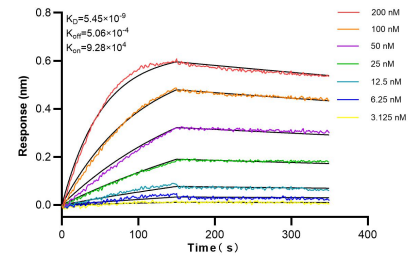
## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human TIGIT Rabbit Recombinant Antibody (98023-2-RR, Clone: 240423C7) 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. This data was developed using the same antibody clone with 98023-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human TIGIT Rabbit Recombinant Antibody (98023-2-RR, Clone: 240423C7) (red) or Isotype Control (blue), and PE-conjugated Goat Anti-Rabbit IgG. Cells were not fixed. Lymphocytes were gated. This data was developed using the same antibody clone with 98023-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98023-2-RR against Human TIGIT were performed. The affinity constant is 5.45 nM.