

For Research Use Only

# FcZero-rAb® Biotin Anti-Mouse TIGIT Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98285



## Basic Information

Catalog Number:

Biotin-FcA98285

Size:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NP\_001139797.1

GeneID (NCBI):

100043314

UNIPROT ID:

A0A0B4J1G6

Full Name:

T cell immunoreceptor with Ig and ITIM domains

Calculated MW:

26kDa

Purification Method:

Protein A purification

CloneNo.:

242242F11

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

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## Applications

Tested Applications:

FC, ELISA

Species Specificity:

mouse

Positive Controls:

FC : anti-CD3/CD28 treated mouse splenocytes,

## 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 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

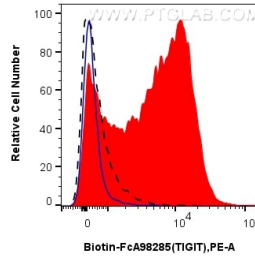
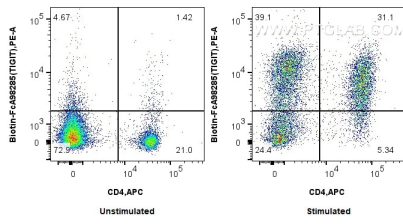
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with APC Anti-Mouse CD4 and 0.25 ug Biotin Anti-Mouse TIGIT Rabbit RecAb (Biotin-FcA98285, Clone: 242242F11) and Streptavidin-PE Conjugate (PE-PF00030). Cells were not fixed.

1x10<sup>6</sup> anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug Biotin Anti-Mouse TIGIT Rabbit RecAb (Biotin-FcA98285, Clone: 242242F11) and Streptavidin-PE Conjugate (PE-PF00030) (red) or FcZero-rAb<sup>TM</sup> Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (blue). 1x10<sup>6</sup> untreated mouse splenocytes were surface stained with 0.25 ug Biotin Anti-

