

For Research Use Only

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

Catalog Number: Biotin-FcA98285



## Basic Information

**Catalog Number:**

Biotin-FcA98285

**Concentration:**

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:**

-

## 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:

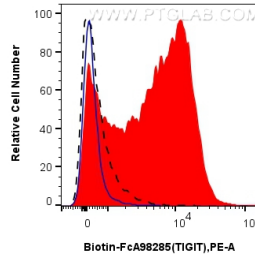
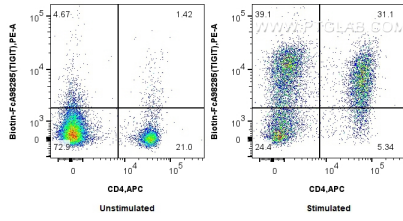
T: 4006900926

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



$1 \times 10^6$  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.

$1 \times 10^6$  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™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (blue).  $1 \times 10^6$  untreated mouse splenocytes were surface stained with 0.25 ug Biotin Anti-Mouse