

For Research Use Only

FcZero-rAb® PE-Cyanine7 Anti-Mouse TIGIT Rabbit Recombinant Antibody

Catalog Number:PY7-FcA98285



Basic Information

Catalog Number:

PY7-FcA98285

Size:

100ug , 200 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: 0.1 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 778 nm

Applications

Tested Applications:

FC

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 and 0.5% BSA, pH7.3

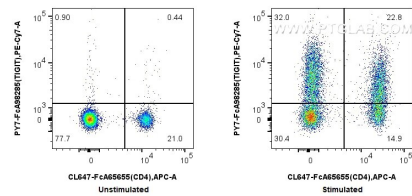
For technical support and original validation data for this product please contact:

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

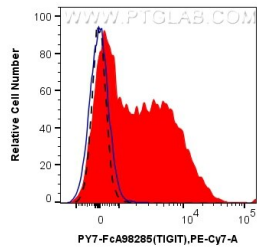
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1x10⁶ untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with FcZero-rAb® CoraLite® Plus 647 Anti-Mouse CD4 and 0.1 ug PE-Cyanine7 Anti-Mouse TIGIT Rabbit RecAb (PY7-FcA98285, Clone: 242242F11). Cells were not fixed.



1x10⁶ anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.1 ug PE-Cyanine7 Anti-Mouse TIGIT Rabbit RecAb (PY7-FcA98285, Clone: 242242F11) (red) or FcZero-rAb® PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9) (blue). 1x10⁶ untreated mouse splenocytes were surface stained with 0.1 ug PE-Cyanine7 Anti-Mouse TIGIT Rabbit RecAb (PY7-FcA98285, Clone: 242242F11) (black, dashed). Cells were not

