

For Research Use Only

Anti-Mouse TIGIT Rabbit Recombinant Antibody

Catalog Number: 98026-1-RR



Basic Information

Catalog Number:

98026-1-RR

Size:

100ug, 1 mg/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.:

240242G1

Recommended Dilutions:

FC: 0.25 ug per 10⁶ cells in 100 µl suspension

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : Anti-CD3/CD28 stimulated 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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

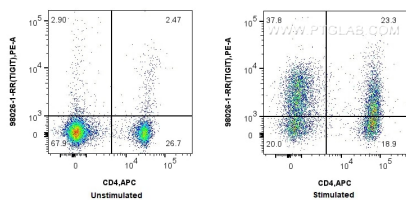
For technical support and original validation data for this product please contact:

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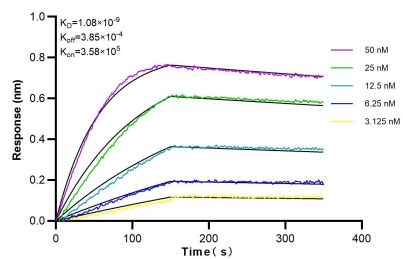
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1x10⁶ untreated or CD3/CD28 treated mouse splenocytes were surface stained with Coralite® Plus 647 Anti-Mouse CD4 and 0.25 ug Anti-Mouse TIGIT Rabbit Recombinant Antibody (98026-1-RR, Clone:240242G1) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG (H+L). Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 98026-1-RR against Mouse TIGIT were performed. The affinity constant is 1.08 nM.