

For Research Use Only

PE Anti-Mouse TIGIT (1G9)

Catalog Number: PE-65079



Basic Information

Catalog Number:

PE-65079

Concentration:

100ug, 0.2 mg/ml

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

NM_001146325

GeneID (NCBI):

100043314

UNIPROT ID:

P86176

Full Name:

T cell immunoreceptor with Ig and ITIM domains

Purification Method:

Affinity purification

CloneNo.:

1G9

Recommended Dilutions:

FC: 0.5 ug per 10⁶ cells in 100 μ l suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

Applications

Tested Applications:

FC

Species Specificity:

Mouse

Positive Controls:

FC : 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 0.1% gelatin, pH7.2

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

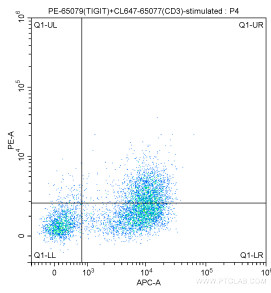
T: 4006900926

E: Proteintech-CN@ptglab.com

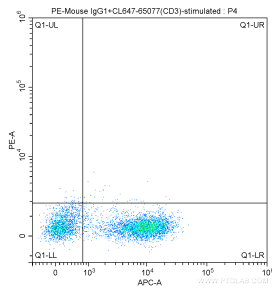
W: ptgcn.com

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Selected Validation Data



1X10⁶ Con A-stimulated (3 ug/ml, 2.5 days)
BALB/c mouse splenocytes were surface stained
with CoraLite® Plus 647-Conjugated Anti-Mouse
CD3 (CL647-65077, Clone: 17A2) and 0.5 ug PE
Anti-Mouse TIGIT (PE-65079, Clone: 1G9). Cells
were not fixed.



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CD3 (CL647-65077, Clone: 17A2) and 0.5 ug PE-
Mouse IgG1 isotype control. Cells were not fixed.