

For Research Use Only

APC Anti-Mouse TIGIT (1G9)

Catalog Number: APC-65079



Basic Information

Catalog Number: APC-65079	GenBank Accession Number: NM_001146325	Purification Method: Affinity purification
Size: 100ug, 0.2 mg/ml	GeneID (NCBI): 100043314	CloneNo.: 1G9
Source: Mouse	UNIPROT ID: P86176	Excitation/Emission maxima wavelengths: 650 nm / 660 nm
Isotype: IgG1, kappa	Full Name: T cell immunoreceptor with Ig and ITIM domains	

Applications

Tested Applications:
FC

Species Specificity:
Mouse

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:
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

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

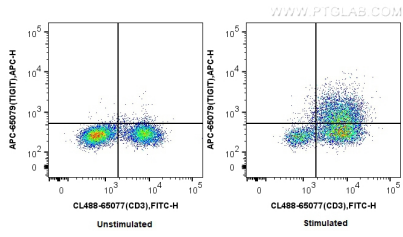
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Selected Validation Data



1X10⁶ unstimulated or plate-bound Anti-CD3 and Anti-CD28 stimulated BALB/c mouse splenocytes were surface stained with 0.25 ug CoraLite@488 Anti-Mouse CD3 (CL488-65077, Clone: 17A2) and 0.25 ug APC Anti-Mouse TIGIT (APC-65079, Clone: 1G9). Cells were not fixed.