

For Research Use Only

# CoraLite® Plus 405 Anti-Mouse TIGIT Rabbit Recombinant Antibody



Catalog Number: CL405-98026

## Basic Information

<b>Catalog Number:</b> CL405-98026	<b>GenBank Accession Number:</b> NP_001139797.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 500 µg/ml	<b>GeneID (NCBI):</b> 100043314	<b>CloneNo.:</b> 240242G1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> A0A0B4J1G6	<b>Excitation/Emission maxima wavelengths:</b> 399 nm / 422 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> T cell immunoreceptor with Ig and ITIM domains	
	<b>Calculated MW:</b> 26kDa	

## 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.

**Storage Buffer:**  
PBS with 0.09% sodium azide.

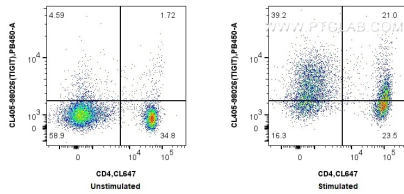
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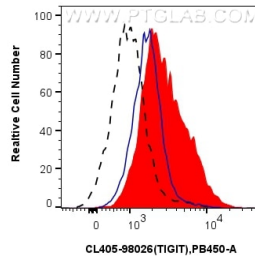
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## Selected Validation Data



$1 \times 10^6$  untreated or anti-CD3/CD28 treated mouse splenocytes were surface stained with CoraLite® Plus 647 Anti-Mouse CD4 and 0.25 ug CoraLite® Plus 405 Anti-Mouse TIGIT Rabbit Recombinant Antibody (CL405-98026, Clone: 240242G1). Cells were not fixed.



$1 \times 10^6$  anti-CD3/CD28 treated mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 405 Anti-Mouse TIGIT Rabbit Recombinant Antibody (CL405-98026, Clone:240242G1) (red) or Isotype Control (blue).  $1 \times 10^6$  untreated mouse splenocytes were stained with 0.25 ug CoraLite® Plus 405 Anti-Mouse TIGIT Rabbit Recombinant Antibody (CL405-98026, Clone:240242G1) (black, dash). Cells were not fixed.