

For Research Use Only

# CoraLite® Plus 488 Anti-Mouse CD357 (GITR) (DTA-1)



Catalog Number: CL488-65102

## Basic Information

<b>Catalog Number:</b> CL488-65102	<b>GenBank Accession Number:</b> BC146517	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests , 5 µl/test	<b>GeneID (NCBI):</b> 21936	<b>CloneNo.:</b> DTA-1
<b>Source:</b> Rat	<b>Full Name:</b> tumor necrosis factor receptor superfamily, member 18	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG2b, kappa		

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Mouse

## Background Information

Glucocorticoid-induced TNFR-related protein (GITR), also known as CD357 or TNFRSF18, is a member of the tumor necrosis factor receptor (TNF-R) superfamily. GITR is expressed constitutively at high levels in T regulatory cells (Treg cells) and plays a key role in dominant immunological self-tolerance maintained by CD25+CD4+ regulatory T cells (PMID: 11812990). It is expressed at low levels on resting responder T cells. The expression of GITR on T cells can be upregulated upon activation (PMID: 15770698). GITR is activated by GITR ligand (GITRL) which is mainly expressed on APC. GITR-GITRL interactions could co-stimulate both responder T-cell functions and the suppressive functions of Treg cells (PMID: 16868552).

## Storage

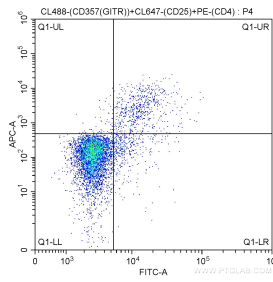
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

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  
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## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface stained with PE-Anti-Mouse CD4 (PE-65104, Clone: GK1.5), CoraLite® Plus 647-Conjugated Anti-Mouse CD25 (CL647-65137, Clone: PC61.5) and 5 ul CoraLite® Plus 488 Anti-Mouse CD357 (GITR) (CL488-65102, Clone: DTA-1). Cells were not fixed. CD4<sup>+</sup> lymphocytes were gated for analysis of CD25 and CD357 (GITR) staining.