

Alexa Fluor® 647 anti-human CD357 (GITR) Antibody

Catalog# / Size	371215 / 25 tests 371216 / 100 tests
Clone	108-17
Regulatory Status	RUO
Other Names	TNFRSF18, Activation-inducible TNFR, AITR, Glucocorticoid-inducible TNFR
Isotype	Mouse IgG2a, κ
Description	<p>GITR (glucocorticoid-induced TNF receptor family-regulated gene) is a 25 kD TNF receptor superfamily member (also known as AITR and TNFRSF18). GITR is expressed on activated lymphocytes and is upregulated by T cell receptor engagement. The cytoplasmic domain of GITR is homologous to CD40, 4-1BB and CD27 and has been shown to interact with TRAF 1-3, but not TRAF 5 or 6. GITR signaling has been shown to regulate T cell proliferation and TCR-mediated apoptosis, and to break immunological self-tolerance. GITR binds GITRL and is involved in the development of regulatory T cells and to regulate the activity of Th1 subsets.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human GITR-Fc chimera
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.</p> <p>* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
RRID	AB_2715776 (BioLegend Cat. No. 371215) AB_2687164 (BioLegend Cat. No. 371216)

Antigen Details

Structure	TNFR superfamily, 234-amino acid type I transmembrane protein, 25 kD.
Distribution	Activated lymphocytes.

Function	Interacts with TRAF's 1-3, but not TRAF 5 or 6, mediates NF- κ B activation through the TRAF2/NIK pathway.
Ligand/Receptor	GITRL
Cell Type	Lymphocytes, Tregs
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. van der Werf N, <i>et al.</i> 2011. <i>J. Immunol.</i> 187:1411. 2. Shimizu J, <i>et al.</i> 2002. <i>Nat. Immunol.</i> 3:135. 3. McHugh RS, <i>et al.</i> 2002. <i>Immunity</i> 16:311. 4. Kwon B, <i>et al.</i> 1999. <i>J. Biol. Chem.</i> 274:6056.
Gene ID	8784

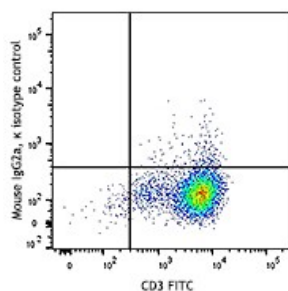
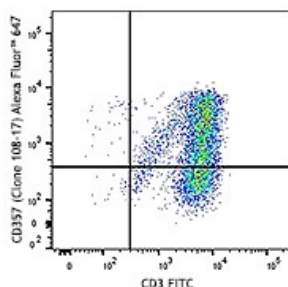
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD357 (GITR), Brilliant Violet 421™ anti-human CD357 (GITR), PE anti-human CD357 (GITR), APC anti-human CD357 (GITR), Alexa Fluor® 488 anti-human CD357 (GITR), Brilliant Violet 605™ anti-human CD357 (GITR), PerCP/Cyanine5.5 anti-human CD357 (GITR), PE/Cyanine7 anti-human CD357 (GITR), Biotin anti-human CD357 (GITR), Brilliant Violet 711™ anti-human CD357 (GITR), APC/Fire™ 750 anti-human CD357 (GITR), Alexa Fluor® 647 anti-human CD357 (GITR), TotalSeq™-A0360 anti-human CD357 (GITR), TotalSeq™-C0360 anti-human CD357 (GITR), Brilliant Violet 750™ anti-human CD357 (GITR), TotalSeq™-B0360 anti-human CD357 (GITR), TotalSeq™-D0360 anti-human CD357 (GITR)

Product Data



Human peripheral blood lymphocytes were activated for three days with PHA, and then stained with CD3 FITC and anti-human CD357 (clone 108-17) Alexa Fluor™ 647 (top) or mouse IgG2a, κ Alexa Fluor™ 647 isotype control (bottom).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587