

## PE anti-human CD357 (GITR) Antibody

<b>Catalog# / Size</b>	371203 / 25 tests 371204 / 100 tests
<b>Clone</b>	108-17
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	TNFRSF18, Activation-inducible TNFR, AITR, Glucocorticoid-inducible TNFR
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	<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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human GITR-Fc chimera
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Product Citations</b>	1. Volta V, <i>et al.</i> 2021. Nat Commun. 12:6979. <a href="#">PubMed</a>
<b>RRID</b>	AB_2616840 (BioLegend Cat. No. 371203) AB_2616841 (BioLegend Cat. No. 371204)

### Antigen Details

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<b>Structure</b>	TNFR superfamily, 234-amino acid type I transmembrane protein, 25 kD.
<b>Distribution</b>	Activated lymphocytes.
<b>Function</b>	Interacts with TRAF's 1-3, but not TRAF 5 or 6, mediates NF-κB activation through the TRAF2/NIK pathway.

<b>Ligand/Receptor</b>	GITRL
<b>Cell Type</b>	Lymphocytes, Tregs
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. van der Werf N, <i>et al.</i> 2011. <i>J. Immunol.</i> 187:1411.</li> <li>2. Shimizu J, <i>et al.</i> 2002. <i>Nat. Immunol.</i> 3:135.</li> <li>3. McHugh RS, <i>et al.</i> 2002. <i>Immunity</i> 16:311.</li> <li>4. Kwon B, <i>et al.</i> 1999. <i>J. Biol. Chem.</i> 274:6056.</li> </ol>
<b>Gene ID</b>	<a href="#">8784</a>

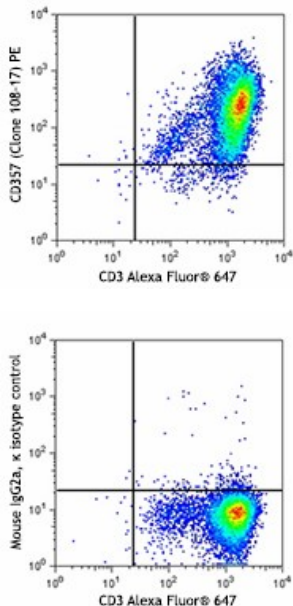
## Related Protocols

[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 3 days with PHA, and then stained with CD3 Alexa Fluor® 647 and CD357 (GITR) (clone 108-17) PE (top) or mouse IgG2a, κ PE isotype control (bottom).

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