

Brilliant Violet 421™ anti-human CD357 (GITR) Antibody

Catalog# / Size	371207 / 25 tests 371208 / 100 tests
Clone	108-17
Regulatory Status	RUO
Other Names	TNFRSF18, Activation-inducible TNFR, AITR, Glucocorticoid-inducible TNFR
Isotype	Mouse IgG2a, κ
Description	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.

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 Brilliant Violet 421™ 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>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Product Citations	<ol style="list-style-type: none"> Schroeder JC, <i>et al.</i> 2020. Cancers (Basel). :12. PubMed Franchini DM <i>et al.</i> 2019. Cell reports. 26(1):94-107 . PubMed Suzuki S, <i>et al.</i> 2020. Cancer Sci. 1943:111. PubMed
RRID	AB_2616850 (BioLegend Cat. No. 371207)

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

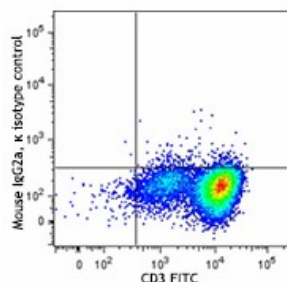
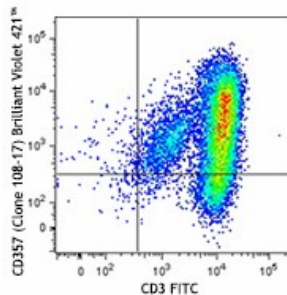
Related Protocols

[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 3 days with PHA, and then stained with CD3 FITC and CD357 (GITR) (clone 108-17) Brilliant Violet 421™ (top) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (bottom).

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