

APC/Fire™ 750 anti-human CD357 (GITR) Antibody

Catalog# / Size	371221 / 25 tests 371222 / 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)
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	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. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Excitation Laser	Red Laser (633 nm)
RRID	AB_2687168 (BioLegend Cat. No. 371221) AB_2687169 (BioLegend Cat. No. 371222)

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-κB activation through the TRAF2/NIK pathway.
Ligand/Receptor	GITRL
Cell Type	Lymphocytes, Tregs
Biology Area	Costimulatory Molecules, Immunology

Molecular Family CD Molecules

Antigen References

1. van der Werf N, *et al.* 2011. *J. Immunol.* 187:1411.
2. Shimizu J, *et al.* 2002. *Nat. Immunol.* 3:135.
3. McHugh RS, *et al.* 2002. *Immunity* 16:311.
4. Kwon B, *et al.* 1999. *J. Biol. Chem.* 274:6056.

Gene ID [8784](#)

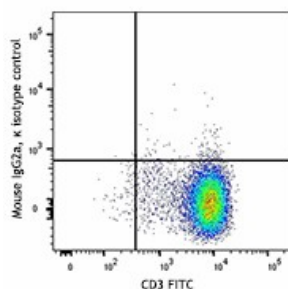
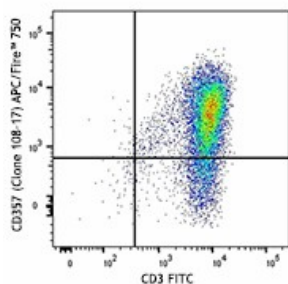
Related Protocols

[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 CD357 (clone 108-17) APC/Fire™ 750 (top) or mouse IgG2a, κ APC/Fire™ 750 isotype control (bottom).

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