

Brilliant Violet 750™ anti-human CD357 (GITR)

Catalog # / Size: 2456150 / 100 tests

Clone: 108-17

Isotype: Mouse IgG2a, κ

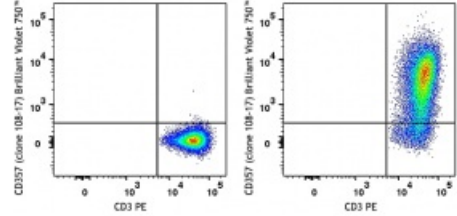
Immunogen: Recombinant human GITR-Fc chimera

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Concentration: Lot-specific



Human peripheral blood lymphocytes were activated for three days with PHA, and then stained with CD3 PE only (left) or human peripheral blood lymphocytes were activated for three days with PHA, and then stained with CD3 PE and CD357 (clone 108-17) Brilliant Violet 750™ (right). Gates were established based on CD3 PE single colored stain.

Applications:

Applications: Flow Cytometry

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. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750™ is a trademark of Sirigen Group Ltd.

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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.

**Antigen
References:**

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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.