CD3

Brilliant Violet 785[™] anti-human CD197 (CCR7)

| Catalog # / Size: | 2366150 / 100 tests 2366145 / 25 tests | 10 |
|------------------------|---|---|
| Clone: | G043H7 | 182 |
| Isotype: | Mouse IgG2a, к | 10° - |
| Immunogen: | CCR7-transfected cells | 6003 |
| Reactivity: | Human | goue |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 785 [™] and unconjugated antibody. | 65 0 10 ² 10 ³ 10 ⁴ 10 ⁶ CD3 FITC |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). | Human peripheral blood lymphocytes were stained with Cl FITC and CD197 (clone G043H7) |
| Concentration : | Lot-specific | Brilliant Violet 785™. |
| | | |

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 785[™] excites at 405 nm and emits at 785 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 785[™] is a trademark of Sirigen Group Ltd.

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Description: CCR7, also known as CD197, is a chemokine receptor that binds CCL19 and CCL21. CCR7 and its ligands link innate and adaptive immunity by affecting interactions between T cells and dendritic cells and their downstream effect. Naïve T cells enter the lymph node through high endothelial venules, which express CCL21. Dendritic cells and macrophages enter the lymph node through afferent lymphatics. The encounter of T cells and dendritic cells in the T cell zone is CCR7-dependent. In addition, during immunological surveillance, B cells recirculate between B-cell-rich compartments (follicles or B cell zones) in secondary lymphoid organs, surveying for antigen. After antigen binding, B cells

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com move to the boundary of B and T zones to interact with T-helper cells; this B cell migration is directed by CCR7 and its ligands. CCR7-positive cancer cell expression has been associated with lymph node metastasis.

 Antigen
 1. Yanagihara S, et al. 1998. J. Immunol. 161:3096.

 References:
 2. Charo IF, et al. 2006. N. Engl. J. Med. 354:610.

 3. Reif K, et al. 2002. Nature 416:94.

4. Nakata B, *et al.* 2008. *O*