SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD197 (CCR7)

Catalog # / Size: 1200595 / 125 µl
1200600 / 500 µl

Clone: 4B12

Isotype: Rat IgG2a, κ

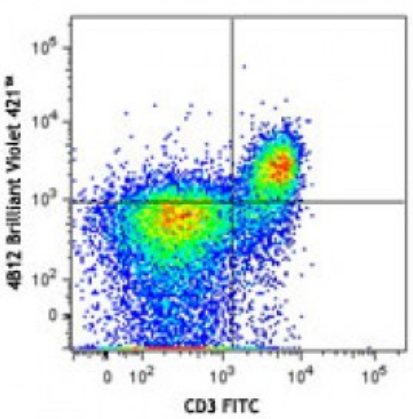
Immunogen: Mouse CCR7 transfected RBL-2H3 cells

Reactivity: Mouse

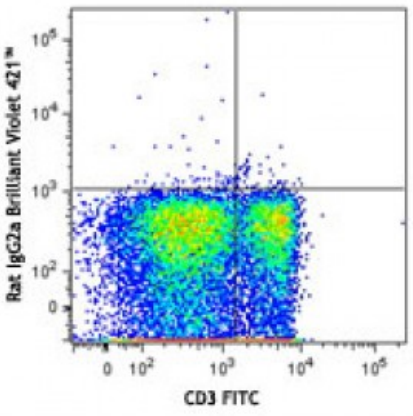
Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

Concentration: Lot-specific



C57BL/6 splenocytes were stained with CD3 FITC and CD197 (clone 4B12) Brilliant Violet 421™ (top) or rat IgG2a Brilliant Violet 421™ (bottom).



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 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.

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Application The 4B12 antibody does not inhibit

Notes: binding of ligand to receptor. Additional reported applications (for the relevant formats) include: immunoprecipitation. To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with anti-mouse CD16/CD32, clone 93 (Cat. No. 101301/101302) is recommended prior to immunofluorescent staining.

Staining with clone 4B12 is recommended at 37°C (see supplemental data of PE staining at differing temperatures).

Application References:

1. Ohl L, *et al.* 2004. *Immunity* 21:279.
2. Ritter U, *et al.* 2004. *J. Leukocyte Biol.* 76:472.
3. Lan YY, *et al.* 2005. *Am. J. Transplant.* 5:2649. (FC)
4. Lee JH, *et al.* 2007. *J. Immunol.* 178:301. (FC) PubMed
5. Kurooka M and Kaneda Y. 2007. *Cancer Res.* 67:227. (FC) PubMed
6. Thompson BD. 2007. *J. Biol. Chem.* 282:9547. (FC)
7. Sakai N, *et al.* 2006. *P. Natl. Acad. Sci. USA* 103:14098. (FC)
8. Turnquist HR, *et al.* 2007. *J. Immunol.* 178:7018. (FC)
9. Hwang IY, *et al.* 2007. *J. Immunol.* 179:439. (FC) PubMed
10. Kang SG, *et al.* 2007. *J. Immunol.* 179:3724.
11. Mao A *et al.* 2005. *J. Immunol.* 175:5146. PubMed
12. Allende ML, *et al.* 2008. *FASEB J.* 22:307. PubMed
13. Kang SG, *et al.* 2007. *J. Immunol.* 179:3724. PubMed
14. Chen H, *et al.* 2005. *J. Immunol.* 175:591. PubMed
15. Florido M, *et al.* 2009. *Immunobiology.* 214:643. PubMed
16. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) PubMed
17. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) PubMed

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Description: CD197 is also known as C-C chemokine receptor 7 (CCR7) or EBI-1. CCR7 is a G-coupled rhodopsin-like member of the GPCR superfamily with a predicted molecular weight of 43 kD that is expressed on hematopoietic stem cells, most naive T cells, some memory T cells, B subset, and mature dendritic cells. CCR7 is a receptor for the chemokines CCL19 (MIP3 β) and SLC (6CKine, Exodus-2, TCA-4, CCL21) that plays a role in thymocytes development, T cell adhesion at intestinal sites, the homeostatic recirculation of memory T cells, and chemotaxis.

Antigen References:

1. Schweickart VL, *et al.* 1994. *Genomics* 23:643.
2. Yoshida R, *et al.* 1998. *J. Biol. Chem.* 273:7118.
3. Campbell JJ, *et al.* 1998. *J. Cell Biol.* 141:1053.
4. Willimann K, *et al.*