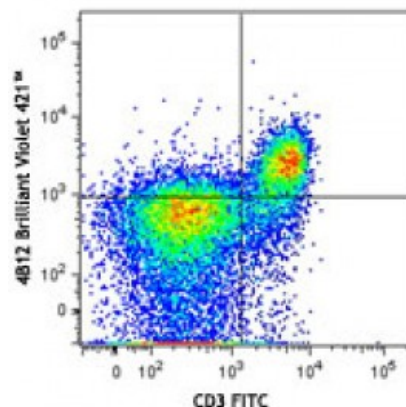


Brilliant Violet 421™ anti-mouse CD197 (CCR7)

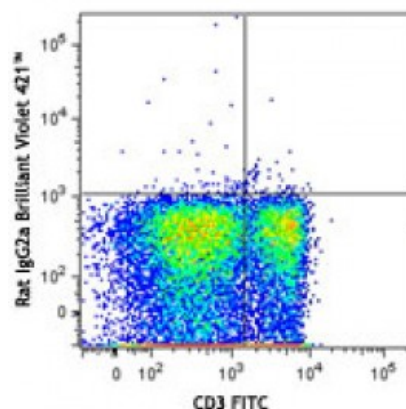
Catalog # / Size:	1200600 / 500 µl 1200595 / 125 µl
Clone:	4B12
Isotype:	Rat IgG2a, κ
Immunogen:	Mouse CCR7 transfected RBL-2H3 cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is 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
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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:**

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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.
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