SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD184 (CXCR4)

Catalog # / Size: 1332555 / 50 µg

Clone: L276F12

Isotype: Rat IgG2b, κ

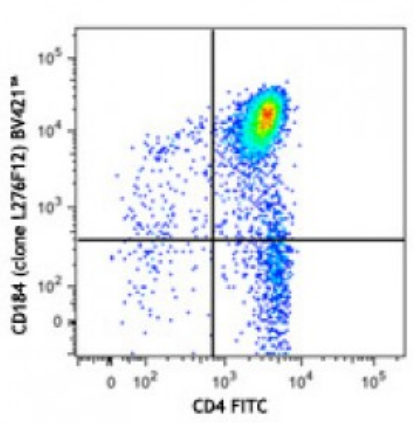
Immunogen: Mouse CXCR4-transfected cells

Reactivity: Mouse

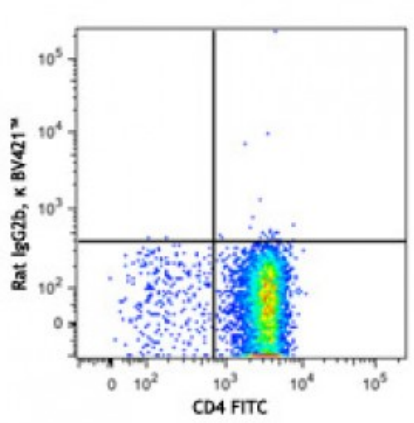
Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

Concentration: 0.2



C57BL/6 mouse thymocytes were stained with CD4 FITC and CD184 (clone L276F12) Brilliant Violet 421™ (top) or rat IgG2b, κ Brilliant Violet 421™ isotype control (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 ≤0.25 microg per million cells in 100 microL volume. 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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Description: CD184, also known as CXCR4, is a member of the G protein coupled receptor family that binds CXCL12 (SDF1). CXCR4 and CXCL12 play an important role in immune and inflammatory responses through the regulation of cell migration and growth. CXCR4 plays a crucial role in the pathogenesis of several autoimmune diseases such as atherosclerosis, rheumatoid arthritis, and wound healing. In addition, CXCR4 is the cofactor for fusion and entry of the T cell-tropic form of HIV-1.

Antigen References:

1. Kucia M, *et al.* 2005. *Stem Cells* 23:879.
2. Muller A, *et al.* 2001. *Nature* 410:50.
3. Saini V, *et al.* 2010. *J. Biol. Chem.* 285:15566.
4. Prasad A, *et al.* 2007. *J. Leuko*