SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse CD184 (CXCR4)

Catalog # / Size: 1332515 / 25 µg
1332520 / 100 µg

Clone: L276F12

Isotype: Rat IgG2b, κ

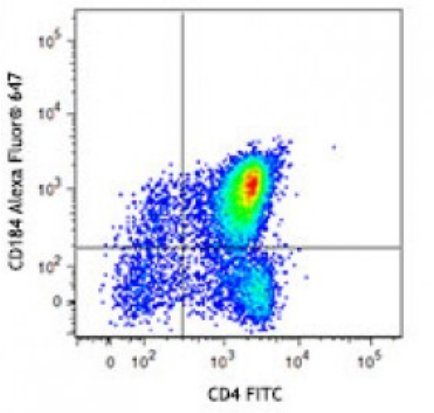
Immunogen: Mouse CXCR4-transfected cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



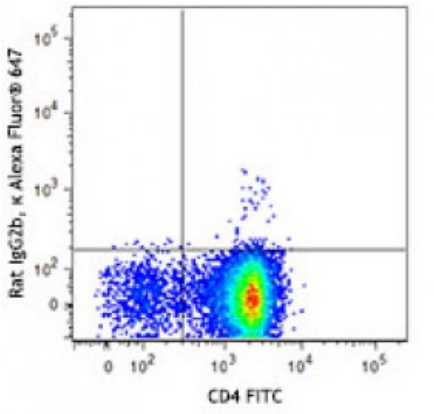
C57BL/6 mouse thymocytes were stained with CD4 FITC and CD184 (clone L276F12) Alexa Fluor® 647 (top) or rat IgG2b, κ Alexa Fluor® 647 isotype control (bottom).

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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.



Application References:
1. Penzo M, *et al.* 2014. *Biochim Biophys Acta.* 1843:1796. PubMed
2. Iinuma S, *et al.* 2015. *J Immunol.* 194:1996. PubMed

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*