

**PE/Dazzle™ 594 anti-mouse CD184 (CXCR4)**

**Catalog # / Size:** 1332565 / 25 µg  
1332570 / 100 µg

**Clone:** L276F12

**Isotype:** Rat IgG2b, κ

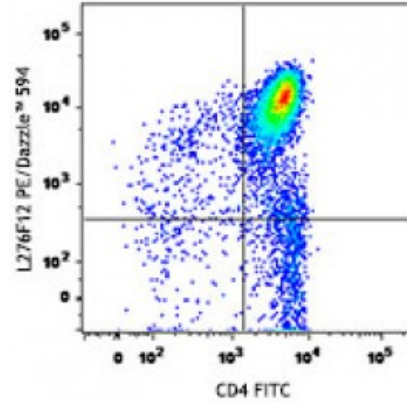
**Immunogen:** Mouse CXCR4-transfected cells

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

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

**Concentration:** 0.2



C57BL/6 mouse thymocytes were stained with CD4 FITC and CD184 (clone L276F12) PE/Dazzle™ 594.

**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.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**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*