Product Data Sheet

APC/Cyanine7 anti-mouse CD184 (CXCR4)

Catalog # / Size:	1332615 / 25 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 APC/Cyanine7 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.2 mg/mL

C57BL/6 mouse thymocytes were stained with CD4 FITC and CD184 (CXCR4) (clone L276F12) APC/Cyanine7 (left) or rat IgG2b, κ APC/Cyanine7 isotype control (right).

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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: *in vivo* blocking[1]
Application References:	1. Costa MJ, *et al.* 2018. *PLoS One*. 13:e0194688 (Block) 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. Biol.* 82:465.
5. De Klerck B, *et al.* 2005. *Arthritis Res. Ther.* 7:R1208.
6. Rueda P, *et al.* 2008. *PLoS One* 3:e2543.
7. Feng Y, *et al.* 1996. *Science* 272:872.