

Datasheet for ABIN5711625  
**anti-CXCR4 antibody (APC)**



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2 Images

## Overview

Quantity:	100 tests
Target:	CXCR4
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CXCR4 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	CP-MAC-infected Sup-T1 cells
Clone:	12G5
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody 12G5 recognizes an extracellular epitope of CD184, a 45 kDa G-protein-linked CXC chemokine receptor widely expressed on blood and tissue cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	CXCR4
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## Target Details

Alternative Name:	CD184 / CXCR4 ( <a href="#">CXCR4 Products</a> )
Background:	C-X-C motif chemokine receptor 4,CD184, also known as CXCR4 or fusin, is a receptor for the C-X-C chemokine SDF-1. It is expressed mainly in hematopoietic cells, vascular endothelium, and neural tissue. CD184 is a G-protein coupled receptor containing extracellular N-terminal, seven transmembrane domains and intracellular C-terminal domain. It transduces signal by increasing the intracellular calcium level. CD184 plays an essential role in vascularization of the gastrointestinal tract, and is involved in cerebellar development and in hematopoiesis. It is also a coreceptor (with CD4) for HIV-1 X4 virus and a primary receptor for some HIV-2 isolates.,CXCR4, LAP3, LCR1, HM89, fusin, SDF1R
Gene ID:	7852
UniProt:	<a href="#">P61073</a>
Pathways:	<a href="#">Regulation of Cell Size, CXCR4-mediated Signaling Events</a>

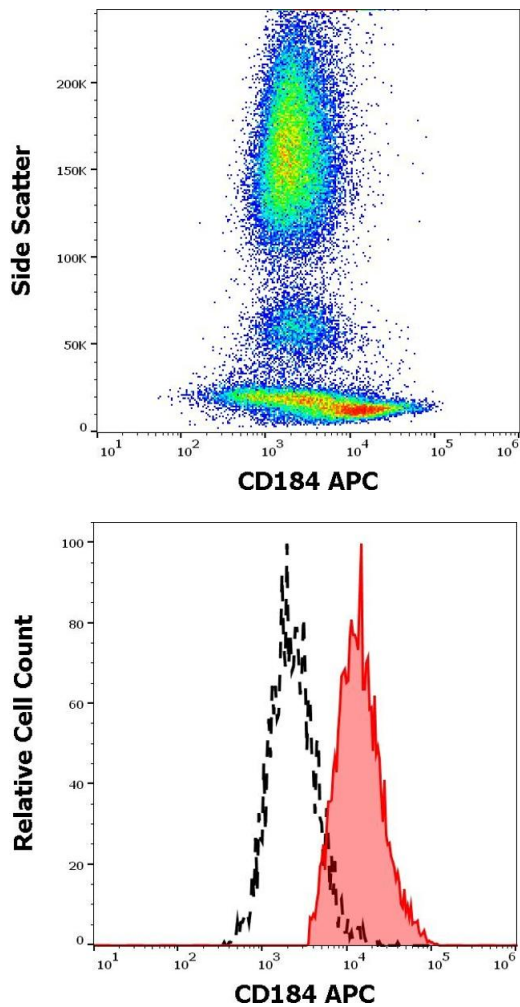
## Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage:	4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD184 (12G5) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

**Image 2.** Separation of human CD184 positive lymphocytes (red-filled) from monocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD184 (12G5) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).