

Datasheet for ABIN2749115  
**anti-CCR5 antibody (AA 1-22) (APC)**



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## Overview

Quantity: 100 tests

Target: CCR5

Binding Specificity: AA 1-22

Reactivity: Human

Host: Mouse

Clonality: Monoclonal

Conjugate: This CCR5 antibody is conjugated to APC

Application: Flow Cytometry (FACS)

## Product Details

Immunogen: CCR5 peptide (Met1-Lys22) KLH conjugate

Clone: T21-8

Isotype: IgG1 kappa

Specificity: The mouse monoclonal antibody T21/8 recognizes an extracellular epitope on the N-terminus of CD195, an approximately 45 kDa G-protein coupled receptor 1 family protein expressed on resting T cells, monocytes, macrophages, and immature dendritic cells.

Cross-Reactivity (Details): Human

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

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Target:	CCR5
Alternative Name:	CD195 / CCR5 ( <a href="#">CCR5 Products</a> )
Background:	C-C motif chemokine receptor 5,CD195 / CCR5 (also known as CKR-5) is a receptor for inflammatory CC-chemokines (characterized by a pair of adjacent cysteine residues), such as MIP-1 alpha, MIP-1 beta, or RANTES. It is a G protein-associated seven-pass transmembrane protein expressed on resting T cells with memory/effector phenotype, monocytes, macrophages and immature dendritic cells. This chemokine receptor regulates the activation and directed migration of leukocytes. Importantly, along with CD4, CD195 / CCR5 functions as a major receptor for HIV. Their ligand is the viral glycoprotein gp120.,CKR5, CCR5, CCCKR5, CMKBR5, IDDM22, CC-CKR-5
Gene ID:	1234
UniProt:	<a href="#">P51681</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Regulation of Cell Size</a>

## Application Details

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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

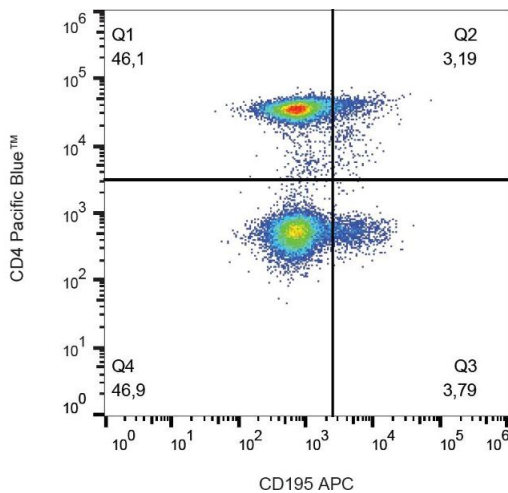
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Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## Publications

- Product cited in: Mascalchi, Lamort, Salomé, Dumas: "Single Particle Tracking reveals two distinct environments for CD4 receptors at the surface of living T lymphocytes." in: **Biochemical and biophysical research communications**, Vol. 417, Issue 1, pp. 409-13, (2012) ([PubMed](#)).
- Monde, Maeda, Tanaka, Harada, Yusa: "Gp120 V3-dependent impairment of R5 HIV-1 infectivity due to virion-incorporated CCR5." in: **The Journal of biological chemistry**, Vol. 282, Issue 51, pp. 36923-32, (2007) ([PubMed](#)).
- Hüttenrauch, Pollok-Kopp, Oppermann: "G protein-coupled receptor kinases promote phosphorylation and beta-arrestin-mediated internalization of CCR5 homo- and hetero-oligomers." in: **The Journal of biological chemistry**, Vol. 280, Issue 45, pp. 37503-15, (2005) ([PubMed](#)).
- Pollok-Kopp, Schwarze, Baradari, Oppermann: "Analysis of ligand-stimulated CC chemokine receptor 5 (CCR5) phosphorylation in intact cells using phosphosite-specific antibodies." in: **The Journal of biological chemistry**, Vol. 278, Issue 4, pp. 2190-8, (2003) ([PubMed](#)).

## Images



### Flow Cytometry

**Image 1.** Flow cytometry multicolor analysis (surface staining) using CD195 in human peripheral blood with anti-CD195 (T21/8) APC and CD4 Pacific Blue.