# TECHNICAL DATA SHEET

# CyFlow™ CD195 Purified
# Anti-Hu; Clone T21/8

REF **AQ470181**

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

## Specifications

| | |
|---|---|
| **Antigen** | CD195 |
| **Alternative Names** | CCR5, CC-CKR5, CMKBR5, CKR5 |
| **Clone** | T21/8 |
| **Clonality** | monoclonal |
| **Format** | Purified |
| **Host / Isotype** | Mouse / IgG1 |
| **Species Reactivity** | Human |
| **Negative Species Reactivity** | — |
| **Quantity [Concentration]** | 0.1 mg [ 1 mg/ml ] |
| **Immunogen** | CCR5 peptide (Met1-Lys22) KLH conjugate |

## Specificity

The mouse monoclonal antibody T21/8 recognizes the N-teminus of CD195 antigen, a 45 kDa G-protein coupled receptor 1 family protein expressed on resting T cells, monocytes, macrophages, and immature dendritic cells.

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunocytochemistry
- Enzyme-linked immunosorbent assay

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

| | |
|---|---|
| **Storage** | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| **Stability** | Do not use after expiration date stamped on vial label. |

## Background Information

CD195 (CCR5, CKR-5) is a receptor for inflammatory CC-chemokines (characterized by a pair of adjacent cysteine residues), such as MIP-1 α, MIP-1 β, 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 functions as a major receptor for HIV. Their ligand is the viral glycoprotein gp120.

## References


- Pollok-Kopp B, Schwarze K, Baradari VK, Oppermann M: Analysis of ligand-stimulated CC chemokine receptor 5 (CCR5) phosphorylation in intact cells using phosphosite-specific antibodies. J Biol Chem. 2003 Jan 24; 278(4):2190-8. < PMID: 12403770 >
- Hüttenrauch F, Pollok-Kopp B, Oppermann M: G protein-coupled receptor kinases promote phosphorylation and beta-arrestin-mediated internalization of CCR5 homo- and hetero-oligomers. J Biol Chem. 2005 Nov 11; 280(45):37503-15. < PMID: 16144840 >



**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- Monde K, Maeda Y, Tanaka Y, Harada S, Yusa K: Gp120 V3-dependent impairment of R5 HIV-1 infectivity due to virion-incorporated CCR5. J Biol Chem. 2007 Dec 21; 282(51):36923-32. < PMID: 17971448 >
- Mascalchi P, Lamort AS, Salomé L, Dumas F: Single Particle Tracking reveals two distinct environments for CD4 receptors at the surface of living T lymphocytes. Biochem Biophys Res Commun. 2012 Jan 6; 417(1):409-13. < PMID: 22166195 >


The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.


**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com