

## TECHNICAL DATA SHEET

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

**REF** AH378490

**For Research Use Only.**

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

### Specifications

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| <b>Antigen</b>                     | CD195                                   |
| <b>Alternative Names</b>           | CCR5, CC-CKR5, CMKBR5, CKR5             |
| <b>Clone</b>                       | T21/8                                   |
| <b>Clonality</b>                   | monoclonal                              |
| <b>Format</b>                      | PE                                      |
| <b>Host / Isotype</b>              | Mouse / IgG1                            |
| <b>Species Reactivity</b>          | Human                                   |
| <b>Negative Species Reactivity</b> | —                                       |
| <b>Quantity</b>                    | 100 tests                               |
| <b>Immunogen</b>                   | CCR5 peptide (Met1-Lys22) KLH conjugate |

### Specificity

The mouse monoclonal antibody T21/8 recognizes the N-terminus 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:

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## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 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.

Other usages may be determined from the scientific literature.

## Storage Buffer

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

## Storage and Stability

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | 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 >
- 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 >

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- 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 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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