

1A-707-T025

## Monoclonal Antibody to CD195 / CCR5 Allophycocyanin (APC) conjugated (25 tests)

<b>Clone:</b>	T21/8
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody T21/8 recognizes 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.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	CCR5 peptide (Met1-Lys22) KLH conjugate
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	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.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry 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 (0.25 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*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. *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. *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. *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

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