



Antibodies

11-707-C025

Monoclonal Antibody to CD195 / CCR5 Purified Antibody (0.025 mg)

Clone:	T21/8
Isotype:	Mouse IgG1
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	CCR5 peptide (Met1-Lys22) KLH conjugate
Species Reactivity:	Human
Application:	Flow Cytometry Immunoprecipitation Western Blotting Application note: do not boil cell lysates prior to SDS-PAGE Immunocytochemistry ELISA
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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- 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.
 - *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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