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anti-CCR5 antibody (AA 1-22)

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Publications



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Overview

Quantity:	0.1 mg
Target:	CCR5
Binding Specificity:	AA 1-22
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CCR5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

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-teminus 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CCR5
Alternative Name:	CD195 / CCR5 (CCR5 Products)
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:	P51681
Pathways:	Cellular Response to Molecule of Bacterial Origin, cAMP Metabolic Process, Regulation of Cell
	Size
Application Details	
Application Notes:	Western blotting: Do not boil cell lysates prior to SDS-PAGE.
	Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	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.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

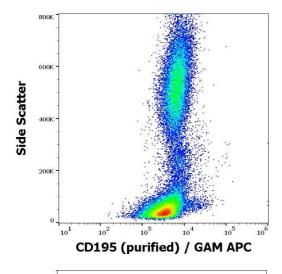
Product cited in:

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).

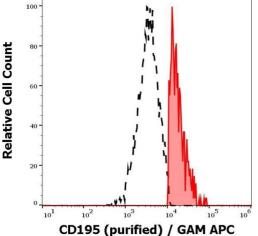
Pollok-Kopp, Schwarze, Baradari, Oppermann: "Analysis of ligand-stimulated CC chemokine receptor 5 (CCR5) phosphorylation in intact cells using phosphosite-specific antibodies." in: **The Journal of biological chemistry**, Vol. 278, Issue 4, pp. 2190-8, (2003) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD195 (T21/8) purified antibody (concentration in sample 3 μ g/mL) GAM APC.



Flow Cytometry

Image 2. Separation of human CD195 positive lymphocytes (red-filled) from CD195 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD195 (T21/8) purified antibody (concentration in sample 3 μg/mL) GAM APC.