

Anti-Hu CD195 Purified CCR5 Monoclonal Antibody

Catalog Number: M00061

About CCR5

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.

Overview

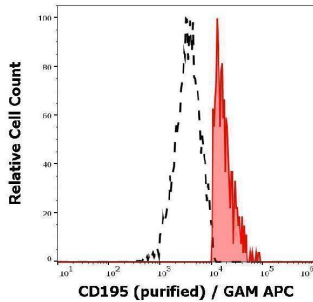
Product Name	Anti-Hu CD195 Purified CCR5 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD195 Purified CCR5 Monoclonal Antibody (Catalog# M00061). Tested in Flow Cytometry, IP, WB, ICC, ELISA application(s). This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IP, ICC, WB
Clonality	Monoclonal T21/8
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P51681

Technical Details

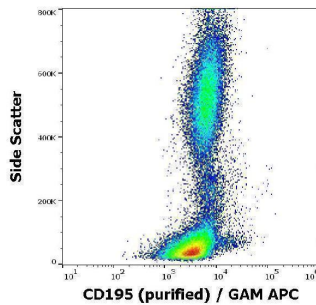
Immunogen	CCR5 peptide (Met1-Lys22) KLH conjugate. The mouse monoclonal antibody T21/8 recognizes an extracellular epitope on the N-terminus of CD195, an approximately 45 kDa G-protein coupled receptor 1 family protein expressed on resting T cells, monocytes, macrophages, and immature dendritic cells.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Western blotting: Do not boil cell lysates prior to SDS-PAGE.

Flow cytometry: 1-4 µg/ml

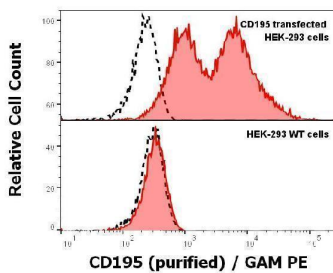
Anti-Hu CD195 Purified CCR5 Monoclonal Antibody (M00061) Images



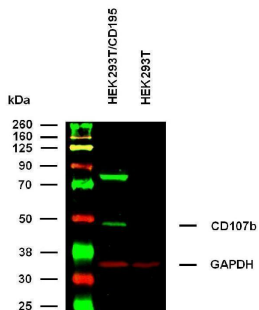
Separation of human CD195 positive lymphocytes (red-filled) from CD195 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD195 (T21/8) purified antibody (concentration in sample 3 µg/ml) GAM APC.



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



Anti-Hu CD195 purified antibody (clone T21/8) specificity verification by flow cytometry Anti-Hu CD195 purified (concentration in sample 5 µg/ml, GAM PE, red-filled histogram) binds specifically to surface CD195 in transfected cells (upper panel), but not to the parent HEK-293 WT cells (lower panel). Level of non-specific binding was assessed on cells unstained by primary antibody (GAM PE, black-dashed histogram).



Anti-Hu CD195 Purified (clone T21/8) works in WB application in non-reduced and non-boiled LM lysates. Western blotting analysis was performed on 1% lauryl maltoside (LM) whole cell extracts of HEK293T/CD195 transfectants and HEK293T cells, mixed with non-reducing SDS-loading buffer without heating. Samples were resolved using 10% SDS-PAGE gel. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody T21/8 (1 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Mouse anti-GAPDH monoclonal antibody FF26A conjugated with DyLight 680 (0.1 µg/ml) was used as the loading control (red). Multiplex fluorescent Western blot detection was performed. CD195 monomers were detected at ~48 kDa in HEK293T/CD195 transfectants.

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