

PerCP/Cyanine5.5 anti-human CD195 (CCR5) Antibody

Catalog# / Size	313715 / 25 tests
Clone	HEK/1/85a
Regulatory Status	RUO
Other Names	CCR5, C-C chemokine receptor type 5, HIV-1 fusion co-receptor
Isotype	Rat IgG2a, κ
Description	CD195, also known as CCR5, is a 45 kD G protein-coupled seven transmembrane CC-chemokine receptor. It binds to MIP-1α, MIP-1β, and RANTES and is expressed on a subset of T cells and monocytes. CD195 mediates an intracellular signal thought to induce cell differentiation and proliferation. CCR5 has also been shown to act as a co-receptor for R5 HIV-1 cell entry; modification of CCR5 by sulfation contributes to the efficiency of HIV-1 entry. Recent studies have shown CCR5 to play a role in a variety of other human diseases, ranging from infectious and inflammatory diseases to cancer.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	CHO cells transfected with human CCR5
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy ¹ Clone HEK/1/85a and clone HEK/1/85a/7a are the same.
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	1. Mueller A, <i>et al.</i> 2002. <i>Blood</i> 99:785. 2. Al-Odi E, <i>et al.</i> 2012. <i>PLoS One</i> . 7:e42217. PubMed 3. Osman A, <i>et al.</i> 2014. <i>J Immunol</i> . 192:5083. PubMed 4. Liu S, <i>et al.</i> 2014. <i>Virus Res</i> . 192:92. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Raposo R, <i>et al.</i> 2013. <i>J Leukoc Biol</i> . 94:1051. PubMed 2. Mock U, <i>et al.</i> 2015. <i>Nucleic Acids Res</i> . 43:5560. PubMed

RRID

AB_2244241 (BioLegend Cat. No. 313715)

Antigen Details

Structure	G-coupled receptor family 1, membrane protein, 45 kD
Distribution	Subset of T cells, monocytes
Function	Binds C-C chemokines and transduces an intracellular signal thought to result in proliferation and differentiation. Acts as a co-receptor with CD4 for HIV-1
Ligand/Receptor	MIP-1 α , MIP-1 β , RANTES
Cell Type	Dendritic cells, Monocytes, T cells
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	<ol style="list-style-type: none">1. Samson M, <i>et al.</i> 1996. <i>Biochemistry</i> 35:3362.2. Raport CJ, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:17161.3. Combadiere C, <i>et al.</i> 1996. <i>J. Leukoc. Biol.</i> 60:147.4. Deng H, <i>et al.</i> 1996. <i>Nature</i> 381:661.5. Lai J, <i>et al.</i> 2003. <i>CVI.</i> 10:1123.6. Mañes S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1381.7. Vaday GG, <i>et al.</i> 2006. <i>Prostate</i> 66:124.
Gene ID	1234

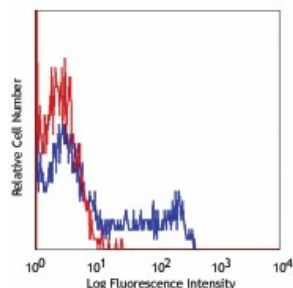
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-human CD195 (CCR5), PE anti-human CD195 (CCR5), Alexa Fluor® 647 anti-human CD195 (CCR5), Alexa Fluor® 700 anti-human CD195 (CCR5), PerCP/Cyanine5.5 anti-human CD195 (CCR5), Pacific Blue™ anti-human CD195 (CCR5), Purified anti-human CD195 (CCR5)

Product Data



Human peripheral blood lymphocytes were stained with CD195 (clone HEK/1/85a) PerCP/Cyanine5.5 (blue histogram), or rat IgG2a, κ PerCP/Cyanine5.5 (red histogram).

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