

Spark PLUS UV395™ anti-human CD195 (CCR5) Antibody

Catalog# / Size	313721 / 25 tests 313722 / 100 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-1 α , MIP-1 β , 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

Verified 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 Spark PLUS UV395™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 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.
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)	

RRID AB_3717231 (BioLegend Cat. No. 313721)
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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	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

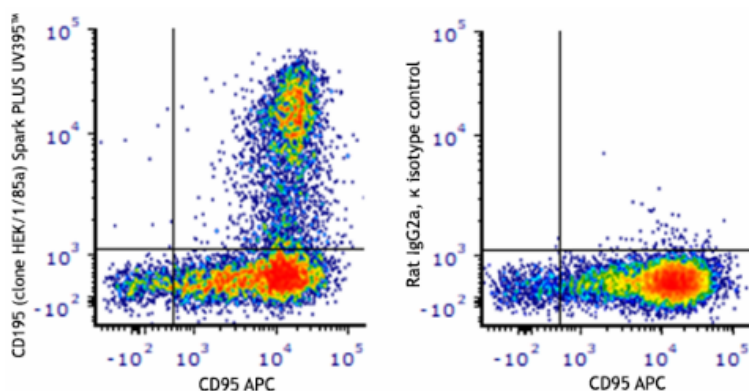
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD195 (CCR5), Spark Blue™ 550 anti-human CD195 (CCR5) (Flexi-Fluor™), PerCP/Cyanine5.5 anti-human CD195 (CCR5), Pacific Blue™ anti-human CD195 (CCR5), PE anti-human CD195 (CCR5), Spark Red™ 718 anti-human CD195 (CCR5) (Flexi-Fluor™), Spark PLUS UV395™ anti-human CD195 (CCR5), PE/Dazzle™ 594 anti-human CD195 (CCR5), Alexa Fluor® 647 anti-human CD195 (CCR5), Alexa Fluor® 700 anti-human CD195 (CCR5), FITC anti-human CD195 (CCR5)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD95 (Fas) (clone DX2) APC and anti-human CD195 (CCR5) (clone HEK/1/85a) Spark PLUS UV395™ (left), or rat IgG2a, κ Spark PLUS UV395™ isotype control (right).

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