

Alexa Fluor® 647 anti-human CD195 (CCR5)

Catalog # / Size: 313711 / 25 tests
313712 / 100 tests

Clone: HEK/1/85a

Isotype: Rat IgG2a, κ

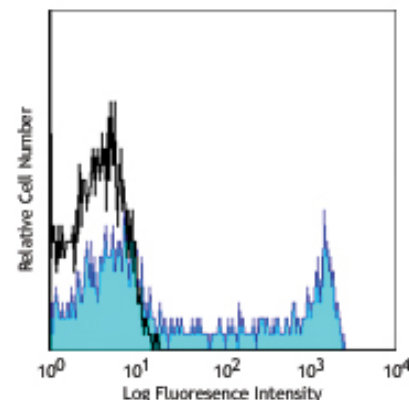
Immunogen: CHO cells transfected with human CCR5

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes were stained with CD195 (clone HEK/1/85a) Alexa Fluor® 647 (filled histogram), or rat IgG2a, κ Alexa Fluor® 647 (open histogram).

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells 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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence microscopy¹

Application References: 1. Mueller A, *et al.* 2002. *Blood* 99:785.
2. Tadagaki K, *et al.* 2012. *Blood*. 119:4908. PubMed.

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.

Antigen References: 1. Samson M, *et al.* 1996. *Biochemistry* 35:3362.
2. Raport CJ, *et al.* 1996. *J. Biol. Chem.* 271:17161.
3. Combadiere C, *et al.* 1996. *J. Leukoc. Biol.* 60:147.
4. Deng H, *et al.* 1996. *Nature* 381:661.
5. Lai J, *et al.* 2003. *CVI.* 10:1123.
6. Mañes S, *et al.* 2003. *J. Exp. Med.* 198:1381.
7. Vaday GG, *et al.* 2006. *Prostate* 66:124.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Alexa Fluor® 647 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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