

Alexa Fluor® 700 anti-human CD195 (CCR5)

Catalog # / Size: 313713 / 25 µg
313714 / 100 µg

Clone: HEK/1/85a

Isotype: Rat IgG2a, κ

Immunogen: CHO cells transfected with human CCR5

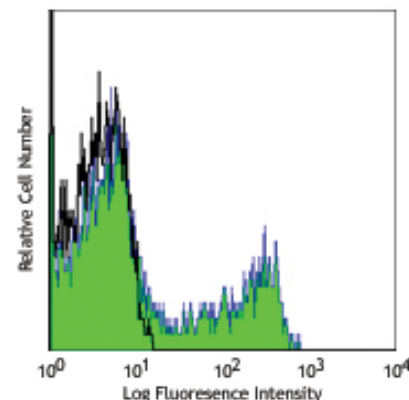
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

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® 700 (filled green histogram), or rat IgG2a, κ Alexa Fluor® 700 (open black histogram).

Applications:

Applications: FC - Quality tested

Recommended Usage: This reagent is developed for immunofluorescent staining for flow cytometric analysis; the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Alexa Fluor® 700 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 700 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. Berg KE, *et al.* 2012. *Clin Cardiovasc Genet.* 5:122. PubMed.

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.

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® 700 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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