BioLegend
The path to legendary discovery™

Product Data Sheet

Alexa Fluor® 488 anti-human CD195 (CCR5)

Catalog # / Size: 313710 / 100 tests

Clone: HEK/1/85a

Isotype: Rat IgG2a, κ

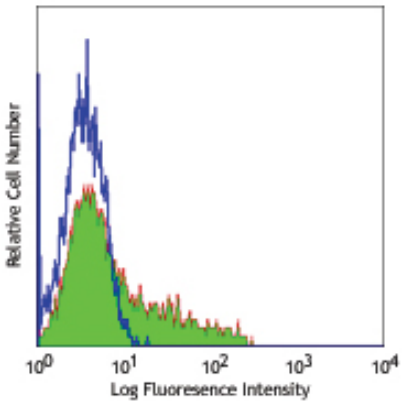
Immunogen: CHO cells transfected with human CCR5

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

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® 488 (filled histogram), or rat IgG2a, κ Alexa Fluor® 488 (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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.
** 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 microscopy[1].

Application References:
1. Mueller A, *et al.* 2002. *Blood* 99:785.
2. El-Hage N, *et al.* 2011. *J. Virol.* 85:11601. 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® 488 Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587