SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-mouse CD195 (CCR5)

Catalog # / Size: 1135075 / 25 µg
1135080 / 100 µg

Clone: HM-CCR5

Isotype: Hamster IgG

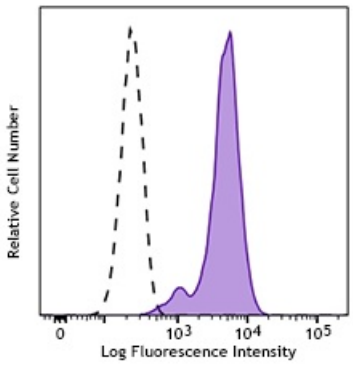
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: 0.2



Mouse CD195 (CCR5) transfected NRK cells were stained with CD195 (clone HM-CCR5) PerCP/Cyanine5.5 (filled histogram), or Armenian Hamster IgG PerCP/Cyanine5.5 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: CCR5 is expressed at low density on activated cells. For successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 107006) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 107004) or biotinylated anti-Armenian hamster IgG (Cat. No. 405501) second step, followed by SAv-PE (Cat. No. 405204)).

Application References:

1. Mao A, *et al.* 2005. *J. Immunol.* 175:5146. (FC) PubMed
2. Ishida Y, *et al.* 2007. *Am J Pathol.*170:843.(FC) PubMed
3. Zeiser Z, *et al.* 2008. *Blood* 111:453. (FC) PubMed
4. Sharma R, *et al.* 2009. *J. Immunol.*. 183:3212 (FC) PubMed
5. Kohlmeier JE, *et al.* 2008. *Immunity.* 29:101. (FC) PubMed

Description: CD195 is a 45 kD chemokine receptor also known as CCR5. CD195 is a seven transmembrane-spanning G protein-associated molecule expressed on macrophages, a T cell subset, and in the heart, liver, and spleen. CD195 regulates lymphocyte chemotaxis and transendothelial migration during inflammatory processes. CD195 interacts with several ligands including RANTES, MCP-1, MIP-1α, and MIP-1β.

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Antigen References:

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Napolitano M, *et al.* 1990. *J. Exp. Med.* 172:285.
3. Meyer A, *et al.* 1996. *J. Biol. Chem.* 271:14445.
4. Boring, *et al.* 1996. *J. Biol. Chem.* 271:7551.

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